## KV-M2140K/M2141K

### SERVICE MANUAL



#### **OIRT** Model

KV-M2140K

Chassis No. SCC-E50B-A

KV-M2141K

Chassis No. SCC-E50A-A

BE-2A CHASSIS

MODELS OF TH	E SAME SERIES
KV-M2140K/M2141K	

#### **SPECIFICATIONS**

[KV-M2140K/M2141K]

Television system

Color system

B/G/H/D/K PAL/SECAM

Channel coverage

B/G/H

VHF: E2-E12

UHF: E21-E69

CABLE TV: S1-S20

D/K

VHF: R1-R12

UHF: R21-R60

Picture tube

Black Trinitron tube

90° degree deflection

Approx. 54.5 cm (21 inches)

(Approx.51.0cm picture measured diagonally)

Inputs

21-pin connector: CENELEC standard

Including RGB input

Audio/Video input jacks: phono jacks

S-Video input

Outputs

21-pin connector: CENELEC standard

Headphones jack: minijack

Sound output

5 W (Music)

Power consumption

70.5Wh (KV-M2140K)

73.5Wh (KV-M2141K)

**Dimensions** 

Approx. 513x475x487 mm (w/h/d)

Weight

Approx. 24.9 kg

[RM-694]

Remote control system infrared control

3V dc

Power requirements

2 batteries IEC designation

R6 (size AA)

**Dimensions** 

Weight

Accessories supplied

Approx. 100g including batteries IEC designation R6 batters (2)

Approx.  $55 \times 18 \times 185$ mm (w/h/d)

Supplied accessories

RM-694 Remote Commander (1)

IEC designation R6 batteries (2)

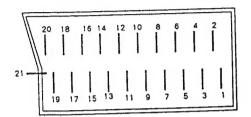
Design and specifications are subject to change without

notice.



TRINITRON® COLOR TV SONY

#### 21-pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1kilohm or less
2	Audio input	0.5Vrms/10kilohms or more
3	Audio output	0.5Vrms/1kilohm or less
4	Earth (audio)	
5	Earth (B-input)	
6	Audio input	0.5Vrms/10kilohms or more
7	8-input	0.7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75ohms
12		
13	Earth (R-input)	
14	Earth (blanking)	
15	R-input	0.7Vp-p/75ohms
16	Fast blanking	IV to 3V/75ohms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75ohms
20	Video input	IVp-p/75ohms
21	Screening plug	

4 pin connector (G=)

4	pin con	nector (g-) .	
$\Gamma$	Pin No	Signal	Signal level
	1	Ground	
	2	Ground	
	3	Y (S signal) input	1∨±3dB 75ohm, positive Sync 0.3V: dB
	4	C (S signal) input	0.3V ± 3dB 75ohm positive

#### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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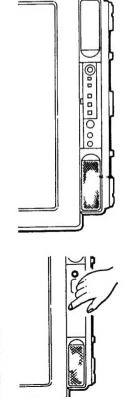
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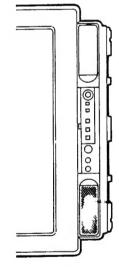
Note) The layout, etc., will be slightly different from the operating instructions packed with SECTION 1 GENERAL

# 1-1. INDEX OF THE PARTS

In the following you will find a short description of the parts and their function on the set or on the remote commander using the respective symbols. For more details reter to the page number given in the index.

TV Set - Front





Buttons for Sound and picture adjustment

-/+**(1)** 

-/+

٨

Ð Θ F

> (4) **₽** 

C:

Audio input jack Video input jack

Headphones jack (mini-jack)

Function

Symbol

TV set

Programme scanning buttons

S-video input jack Standby indicator



Remote Commander

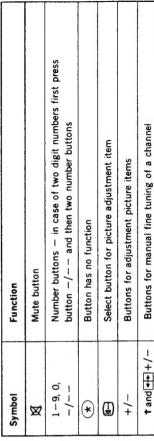
TV Set — Rear

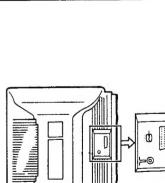
21-Pin connector (rear of the set)

(0)

Aerial socket (rear of the set)

Power switch





Note Buttons not referred to in this index have no function.

Button for activating the sleep timer

Buttons for adjusting the volume

Programme scanning buttons

PR0GR +/-

7+7

**1** 

RM-694

TRINITRON

Used to return to TV-mode from stadby and video input modes

Button for selecting the video input mode

On/off button for onscreen display

Buttons for switching the TV set into standby mode

Button for resetting the picture adjustment items to standard

Button for clearing a programme position (in preset mode)

Functions only in combination with other buttons

Preset mode on/off buttons

**∌** and **†** 

ပ

909

8

0 Φ (\*)

Ð

# 1-2. TO PRESET CHANNELS

The control buttons to preset channels are located on the Remote Commander. (Up to 60 programme positions are at your disposal.)

- Press the power switch on the set to switch it
- (preset) button simultaneously. You are now Press both the \* (shift) button and the in the preset mode N
- PROGR (downwards) to select the required Use either button PROGR + (upwards) or programme position. m

On-screon display

during channel

operation.

preset

TRINITRON RM-694

- button repeatedly until the desired TV station Press both the + button and the + or is found. 4
- Repeat steps 3 and 4 for all other channels. ß
- Press once more both the T button and the (preset) button in order to return to the TV mode and to store the channels. ဖ

# Skipping of programme positions

Using both the button C and the + button you have the possibility to skip unused programme positions (e.g. without a stored station) when pressing the PROGR +/- buttons.

- Press both the ★ button and the � (preset) button to select the preset mode.
- Select the programme position to be skipped by pressing the + or - PROGR button.
- Press the C button.
- Prees both the <a> (preset)</a> button and the <a> </a> button to return to the TV mode.

## Manual Fine Tuning

Automatic Fine Tuning which usually tunes in the respective programme number the automatic Fine button to fine ture the channel. By pressing the If the reception of a channel is not satisfactory Press both the T button and the + or you have the possibility to deactivate the best possible picture during presetting. **Tuning** will be restored.

# 1-3. DAILY USE OF THE TV

Your TV set is supposed to be operated with the Remote Commander, for the basic functions however it is also possible to use the buttons on the set itself.

## · Switching the set on

indicator on the set lights up, if it is in standby Press the power switch on the set to switch the TV on. if the set is switched on. the green mode the red indicator lights up (see also Standby mode').

## Switching the set off

ф

000

Number Buttons 1, 2 ... 9, 0-

000 0

1,2,...9,0

-/-

-- PROGR +/-

-+/- (I

4

ÐQ

Press the power switch on the set to switch the

## Z off.

-PROGR +/-

9

Press the respective number button 1,2, Selection of programmes

In the case of two digit numbers, first press button -/-- and then the two respective 9 on the remote commander. number buttons.

With the PROGR +/- buttons you can scan the programme positions (+ upwards, -downwards).

### On the Set

TRINITRON RM-694

Programme position

flashes.

positions and the + button for higher ones. Press the -- button for lower programme

### Standby mode

There are two possibilities to put the set into standby mode.

### Directly

approximate location channel being tuned

Indicates the

UHF IIIIIIIIIIIIII

in the band of the

Press the button O on the remote commander. The red indicator O on the set lights up. Note:

Use the standby button only for short breaks if the set will not be used for a longer time span, use the power switch (1) to switch the set off.

UHE IIIIIIIIIII

## By using the sleep timer

In this way you can select the time perlod after required time period is displayed on the screen Press the @ button repeatedly until the (30, 60, 90 or 0 for cancelling of the operation).

Ð

PROGR

Programme number

stops flashing.

UHF TITILITIES

## which the set switches itself automatically into standby mode.

# Switching the set on out of standby mode

Press the Ubutton or one of the number buttons on the remote commander.

# Press the Jbutton to display the programme number on the screen and press the button On-screen display

O+ On screen display after presetting.

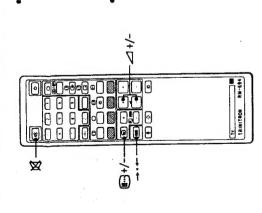
In TV-mode. if teletext is broadcast on the selected channel, press the button @to display the once more to make (only for KV-M2141K) it disappear. Time feature (KV-M2141K only)

# Selecting the signal of the connected device

current time.

Press the G-button to receive the signal of the device (e.g. a video recorder) connected at the V ← A connectors or the 21 -pin connector (rear of the set).

# 1-4. PICTURE AND SOUND ADJUSTMENTS



Press the button Z + to increase the volume

the screen and adjust the volume with the -Press the Dutton until A is displayed on and the button 
∠ - to decrease it. On the set

# Modification of the picture presettings

or + button.

displayed on the screen). Adjust the settings by select either contrast (), colour intensity (3), or Press the Dutton on the commander to brightness ☆ (the respective indication is pressing the + or - button.

# To return to factory-set leveis

Press the reset button →· ← to return to the preset picture leves.

### On the set

requested item (contrast(), colour Intensity (3), brightness ☆, and adjust with the + or -Press the button [ ] in order to select the

## Muting the sound

Press the K button to switch off the sound. Press the button again to restore the sound.

To view the teletext service, use the Remote Commander. RM-694 has teletext buttons indicated in green teletext operation are indicated in green. Operation

- 1 Select the TV channel for the desired teletext
- teletext service. Once 18/18 has been pressed, the TV channel
- cannot be changed. Key in the three digits for the desired page using the number buttons, if an error is made, complete the three digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the Remote

The teletext service can be displayed directly from the standby mode, by pressing ( )(2) Commander.

- To receive the teletext aervice of a different TV
  - Press TV to return to the TV mode. Select the desired TV channel. Press (\*\*) (\*\*)

To display the Index page. Press (E) (INDEX), If the necessary signal is not being broadcast, page 100 is displayed.

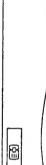
These buttons are indicated in white on the Commander. To access the next or preceding page Press (B) (PAGE+) or (B) (PAGE-).

To superimpose the teletext display on the TV picture. Press (2) Twice from TV mode. Press (2) To again to return to the TEXT display.

displayed.
Press EX (TEXT CL). This button can be operated from both the TEXT and MIX displays. To suppress the teletext display so that the TV picture is

To prevent a teletext page (subpage) from being updated /changed. Press ⑮ HOLD. The HOLD symbol "⑱" appears at the top

left of the screen. 



To resume normal teletext reception, press E

1-5. VIEWING TELETEXT (KV-M2141K only)

To enlarge the teletant display. Press (B) Press (B) Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display; press again to return to the normal display.

To reveal concessed infometion such as the answers to a

Press again to conceal the answers. Press (T) (REVEAL)

To adjust the contrast of the teletext display. Press () + or - button.

To watch the TV program while weiting for a requested

page to be displayed.

I Request the new page.

2 Pless (2) to watch the IV program. The requested page number appears at the top left of the screen.

When the requested page has been found, the page number is displayed on the top left hand conner of the



To view this page, press (2)

To have a requested page displayed at a pre-determined

"T\*\*\*\*" will appear at the bottom of the screen. 1 Request a time coded page (e. g. alarm page). 2 Press (© (TP ON).



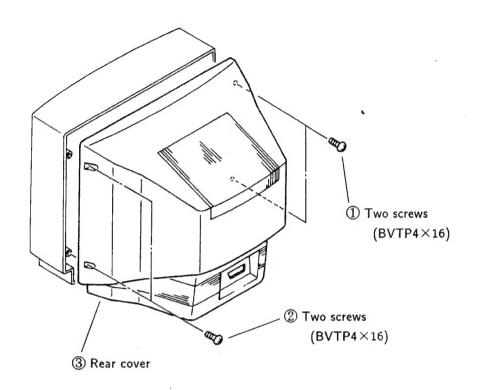
Enter your request time with the number buttons, using four digits. For example, 07:30. m



To watch the TV program until the requested time, press (SA At the requested time, the page number will be displayed at the top of the screen.
To view this page, press (B/E). To cancel the request, first ensure that the teletext page is displayed, then press (SI (TP OFF).

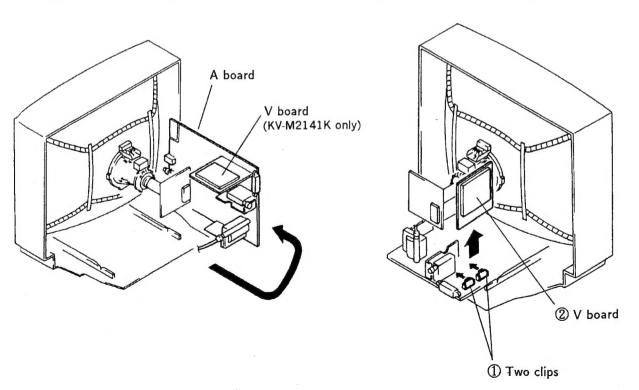
#### SECTION 2 DISASSEMBLY

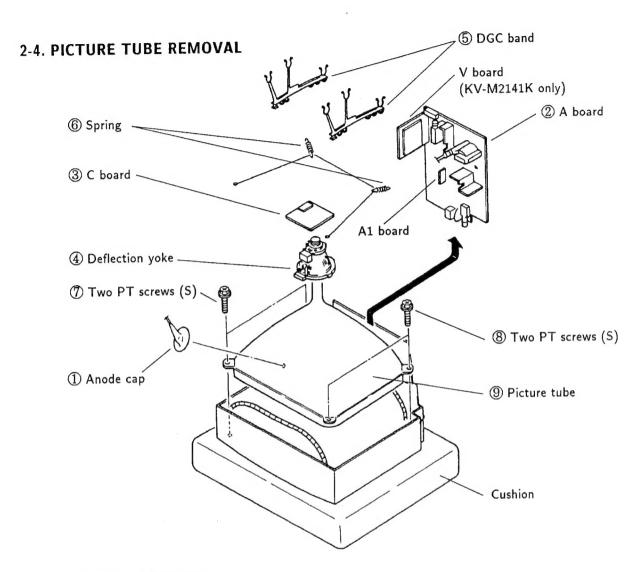
#### 2-1. REAR COVER REMOVAL



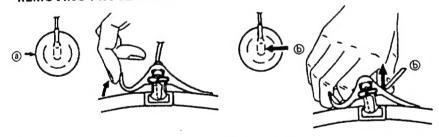
#### 2-2. SERVICE POSITION

#### 2-3. V BOARD REMOVAL (KV-M2141K only)

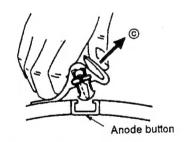




#### - REMOVING PROCEDURES



① Turn up one side of the rubber cap in ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.



When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

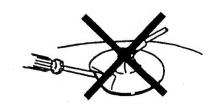
#### · HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook
- terminal is built in the rubber.

  Don't turn the foot of rubber over hardly!

  The shatter-hook terminal will stick out or hurt the rubber.





### SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted:
  - ◆ CONTRASTcontrol······ 80%(or Normal by commander)

☆ BRIGHTNESS control .... 50%

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

#### Preparation:

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

#### 3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.

CONTRAST
BRIGHTNESS } normal

- 2. Turn the raster signal of the pattern generator to red.
- Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig. 3-1 - 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and green confirm the condition.
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

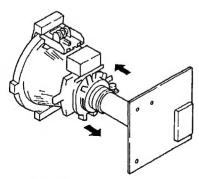


Fig.3-1

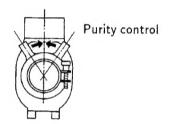


Fig.3-2

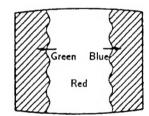
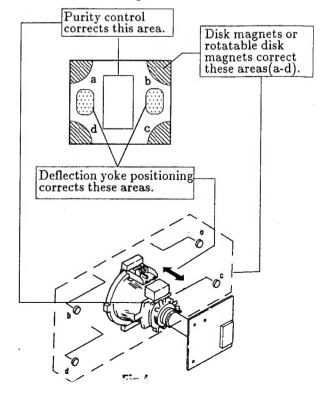


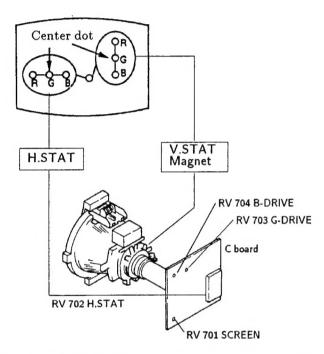
Fig.3-3



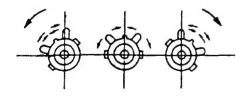
#### 3-2. CONVERGENCE

#### Preparation:

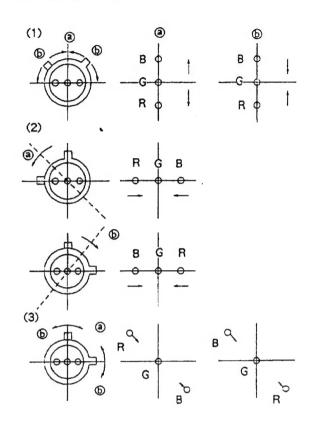
- Before starting, perform FOCUS, H.SIZE, and V.
   SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
- Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (and (b), red, green and blue dots move as shown below.

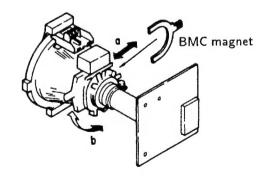


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V static convergence.

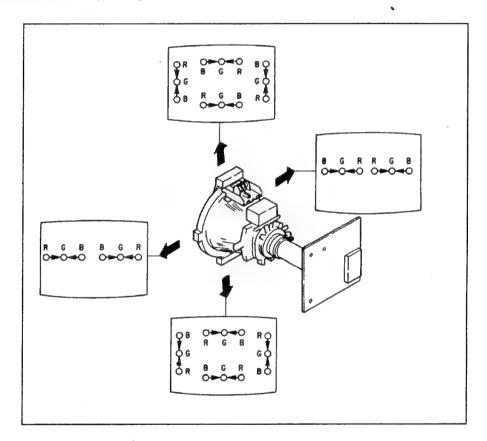
In either case, repeat Beam Landing Adjustment.

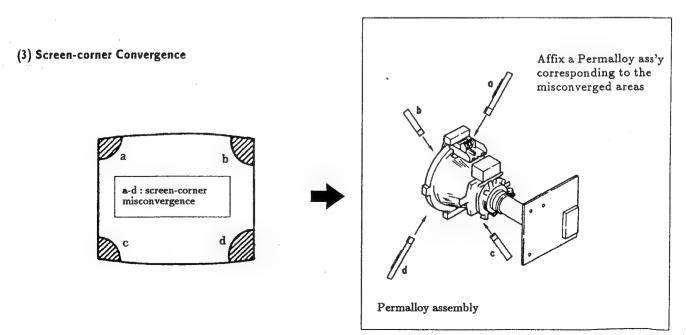


### (2) Dynamic Convergence Adjustment Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

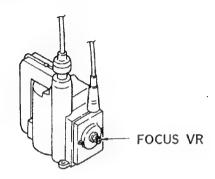
- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.





#### **3-3. FOCUS**

Adjust FOCUS so that the whole screen is in best focus.

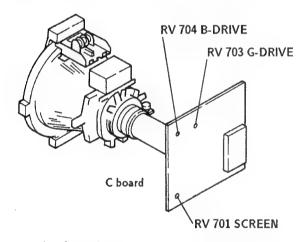


#### White Balance Adjustment

- 1. Input all-white signal from the pattern generator.
- 2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
- 3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

#### 3-4. SCREEN (G 2) and WHITE BALANCE

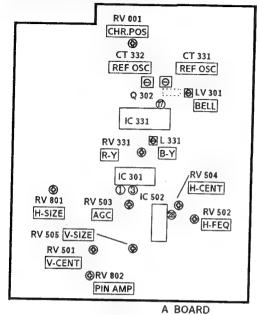


#### Screen (G 2) Setting

- 1. Input dot signal from the pattern generator.
- 2. Set the picture BRIGHTNESS control to minimum level.
- 3. Apply 170 V DC to the cathodes of R,G and B from an external power source.
- While watching the picture, adjust the G2 control RV701 (SCREEN) immediately before fly-back line disappears.

### SECTION 4 CIRCUIT ADJUSTMENTS

#### 4-1. A BORAD ADJUSTMENTS

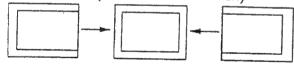


-Component side-

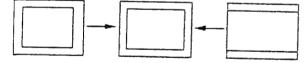
#### TU AGC Adjustment (RV 503)

- 1. Tune in air signal.
- 2. Adjust AGC VR (RV 503) so that snow-noise and cross-modulation just disappear from the picture.

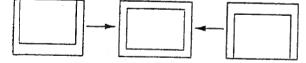
#### RV 504 H.CENT (HORIZONTAL CENTER)



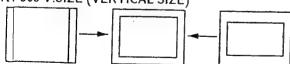
RV 801 H.SIZE (HORIZONTAL SIZE)



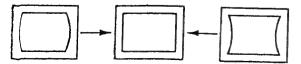
RV 501 V.CENT (VERTICAL CENTER)



RV 505 V.SIZE (VERTICAL SIZE)

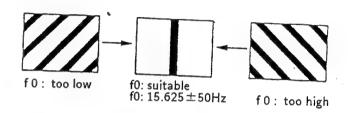


RV 802 PIN AMP (PINCUSHION AMPLIFIER)



#### H.FREQ Adjustment (RV 502)

- 1. Input a PAL COLOR BAR signal, then connect an electrolytic capacitor (100  $\mu/16$  V) between pin and GND of IC 502.
- 2. Adjust RV 502 (H.FREQ) to stop scrolling of the picture in the horizontal direction.
- 3. After adjustment, remove the electrolytic capacitor.



#### REF OSC 7.16 MHz Adjustment (CT 331)

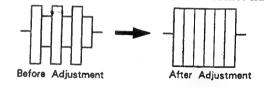
- 1. Input an NTSC COLOR BAR pattern.
- 2. Short circuit between pin @ of IC 331 and ground.
- 3. Adjust CT 331 to obtain color synchronization.
- 4. Remove the jumper wire from IC 331.

#### REF OSC 8.8 MHz Adjustment (CT 332)

- 1. Input a PAL COLOR BAR pattern.
- 2. Short circuit between pin of IC 331 and ground.
- 3. Adjust CT 332 to obtain color synchronization.
- 4. Remove the jumper wire from IC 331.

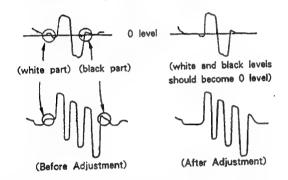
#### BELL FILTER Adjustment (LV 301)

- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to rhe Q 302 emitter.
- 3. Adhust LV 301 so that waveform becomes flat.



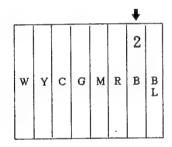
#### SECAM DISCRI Adjustment (RV 331 R-Y L 331 B-Y)

- 1. Input a SECAM COLOR BAR pattern.
- 2. Connect an oscilloscope to pin ① of IC 301.
- 3. Adjust RV 331(R-Y) so that white and black parts of the waveform of pin ① becomes 0 lecel.
- 4. Connect an oscilloscope to pin 3 of IC 301.
- 5. Adjust L 331(B-Y) so that white and black parts of the waveform of pin 3 becomes 0 level.



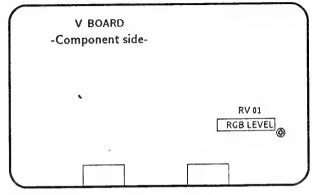
#### CHARACTER POSITION Adjustment (RV 001)

- 1. Input PAL COLOR BAR pattern.
- 2. Adjust RV 001 to position the charcter display at the point indicated by the arrow below.



#### 4-2. V BOARD ADJUSTMENT

(KV-M2141K only)

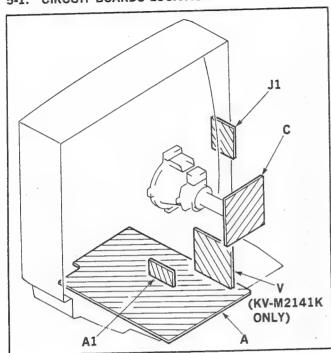


#### RGB LEVEL Adjustment (RV 01)

- 1. Set PICTURE to maximum.
- 2. Adjust RV01 till the RGB output becomes maximum.

A

#### 5-1. CIRCUIT BOARDS LOCATION



#### Reference information

SECTION 5

**DIAGRAMS** 

COIL CAPACITOR		RN RC FPRD FUSE RS RB * LF-8L TA PS PP	METAL FILM SOLID NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE NONFLAMMABLE WIREWOUNG NONFLAMMABLE CEMENT ADJUSTMENT RESISTOR MICRO INDUCTOR TANTALUM STYROL POLYPROPYLENE MYLAR
CAFACITOR			STYROL
	:	PP	POLYPROPYLENE
	:	PT	
	:	MPS	METALIZED POLYESTER
	:	MPP	METALIZED POLYPROPYLENE
	:	ALB	BIPOLAR
	:	ALT	HIGH TEMPERATUNE
	:	ALR	HIGH RIPPLE

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

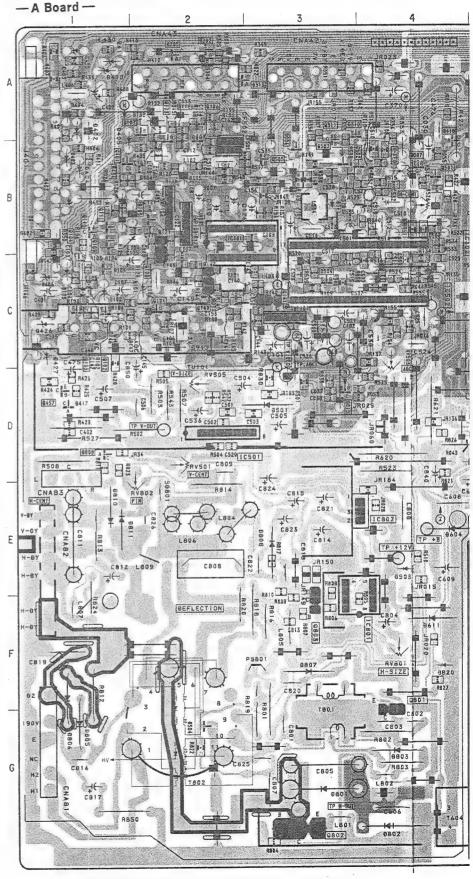
- All capacitors are in  $\mu F$  unless otherwise noted, pF :  $\mu \mu F$ 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch Rating electrical power: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms . k $\Omega$ : 1000 $\Omega$ , M $\Omega$ : 1000k $\Omega$ .
- m-: nonflammable resistor.
- fusible resistor.
- [ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltage are in V.
- $\bullet$  Readings are taken with a 10M  $\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- = : B+ bus.
- 🖙 : Signal path. (RF)

#### 5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

I		Q307	B-6	Đ501	Ð-3	rn	IL
		Q310	A-3	9503	E-4	LV301	C-7
10001	Ð-9	0311	A-3	Đ504	G-2		C-6
10002	8-9	Q401	B-2	8511	B-3	L331	L-6
10003	Ð-10	Q457	Ð-1	Ð519	C-8		
10004	E-9	QS01	B-4	109ê	F-7 F-6		
10005	B-8	Q502	B-3	£602 €603	F-5		
IC101	B-2	Q503 Q504	B-3 C-3	£604	E-4		
1C102 1C201	B-5 F-8	Q505	B-3	£605	E-6		
10301	8-5	Q601	G-5	£606	9-5		
10302	3-7	0801	G-4	8607	G-5	1	
10331	C-7	Q802	H-3	£608	H-5	1	
10501	Ð-2	Q803	F-3	9609	G-5	1	
10502	C-4	01301	B-9	Đ610	G-5		
10601	G-5	01302	B-10	Ð611	F-4		
10801	F-3	01303	B-10	1086	G-3		
10802	E-4	01304	A-10	Đ802	H-4		
		01305	A-10	803	G-4	1	
		01306	B-10	8805	G-1	1	
DAMS	ISTOR			£806	F-1		
				£807	F-3	1	
1000	Ð-8	DIG.	1DF	£808	E-3		
0003	C-9			Đ809	9-1		
0004	0-10	Đ002	E-10	€820	F-4	i	
0005	B-8	Đ004	C-9	Ð1301	B-10 B-10		
0006	C-8	9006	B-3	01302 01303	B-10		
2007	8-4	9007 9008	B-8 9-10	Đ1304	A-10		
Q015 Q016	9-3 9-10	£006	B-8	Đ1305	A-10		
0017	E-9	£020	B-8	Đ1306	B-10	ļ	
2017	Ð-10	Ð101	C-2	£1307	B-10		
2020	Ð-8	Ð102	C-1	1		1	
2101	C-2	Ð103	C-1				
Q102	C-1	Ð105	B-2				
0103	C-1	Ð110	Ç-5	VADI	ABLE	1	
0104	C-1	Ð301	C-6				
Q106	A-2	£302	A-2	KF21	STOR		
G107	A-2	Đ303	B-6	RY001	Ð-9		
8019	C-2	Đ305	A-2	RV331	C-6		
0109	B-1	£0206	B-6	RV501	Ð-2		
G110	B-1	9313	A-3	RV502	B-4		
011,1	B-1	Đ321	C-5	RY503	C-4		
0112	A-7	£324	A-7	RV504	B-4		
Q113	B-5	Đ333	Ð-7	RV505	Ð-2	-	
8114	B-5	Ð402	A-1	RV801	F-4		
0115	A-6	Đ403	B-1	RV802	€-2		
Q123	A-2	Đ404 Đ405	8-1				
0140	C-2	Đ405 0404	A-2				
Q141	C-3	9406	C-1			-	
0302	C-7	Ð410 Ð411	A-1 A-1	TRI	MMER		
0303	C-7	Đ417	9-1	CT331	C-7	-	
Q304 Q305	B-6	Đ417 Đ418	A-4	CT332	C-7		
A303	B-6	Đ426	C-1	6,222		1	



KV-M2140K/M2141K RM-694

SYSTEM CONTROL, A/V OUT, H/V OUT, MEMORY, CHROMA

Α

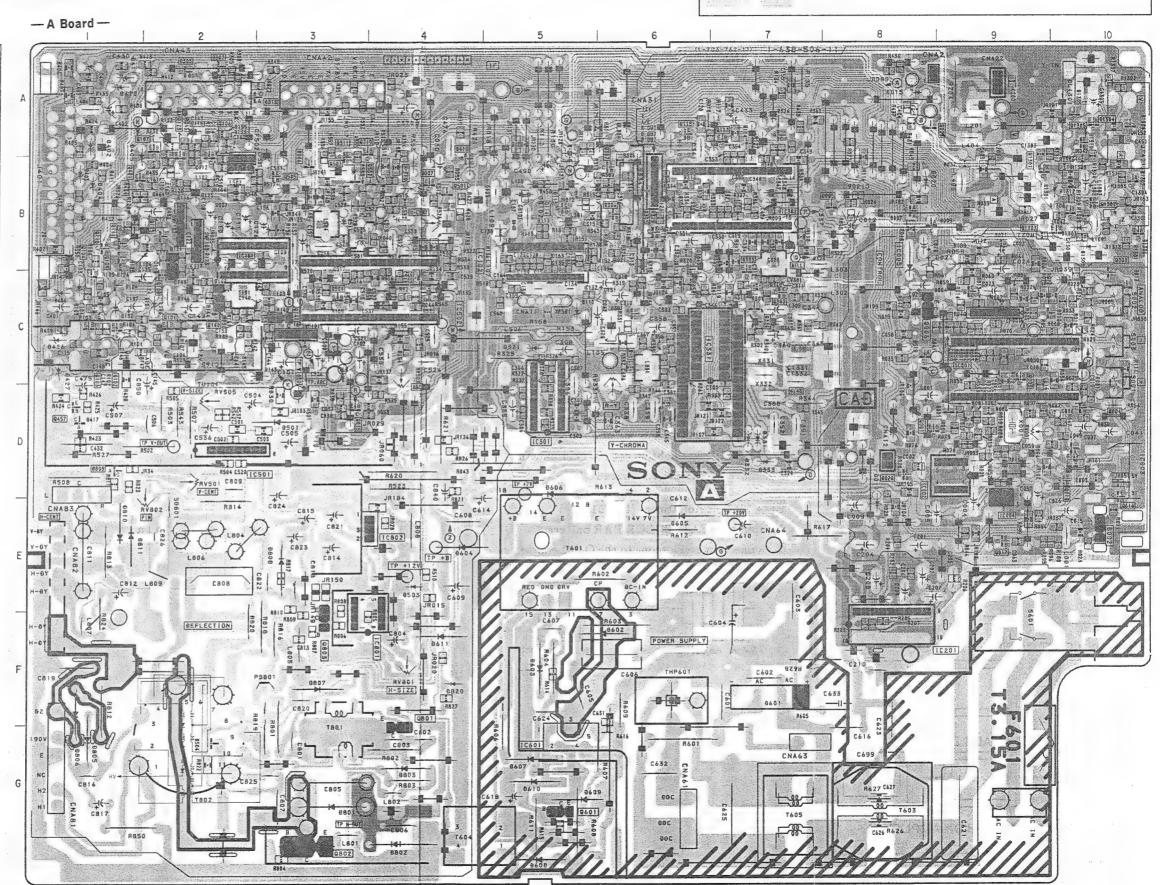


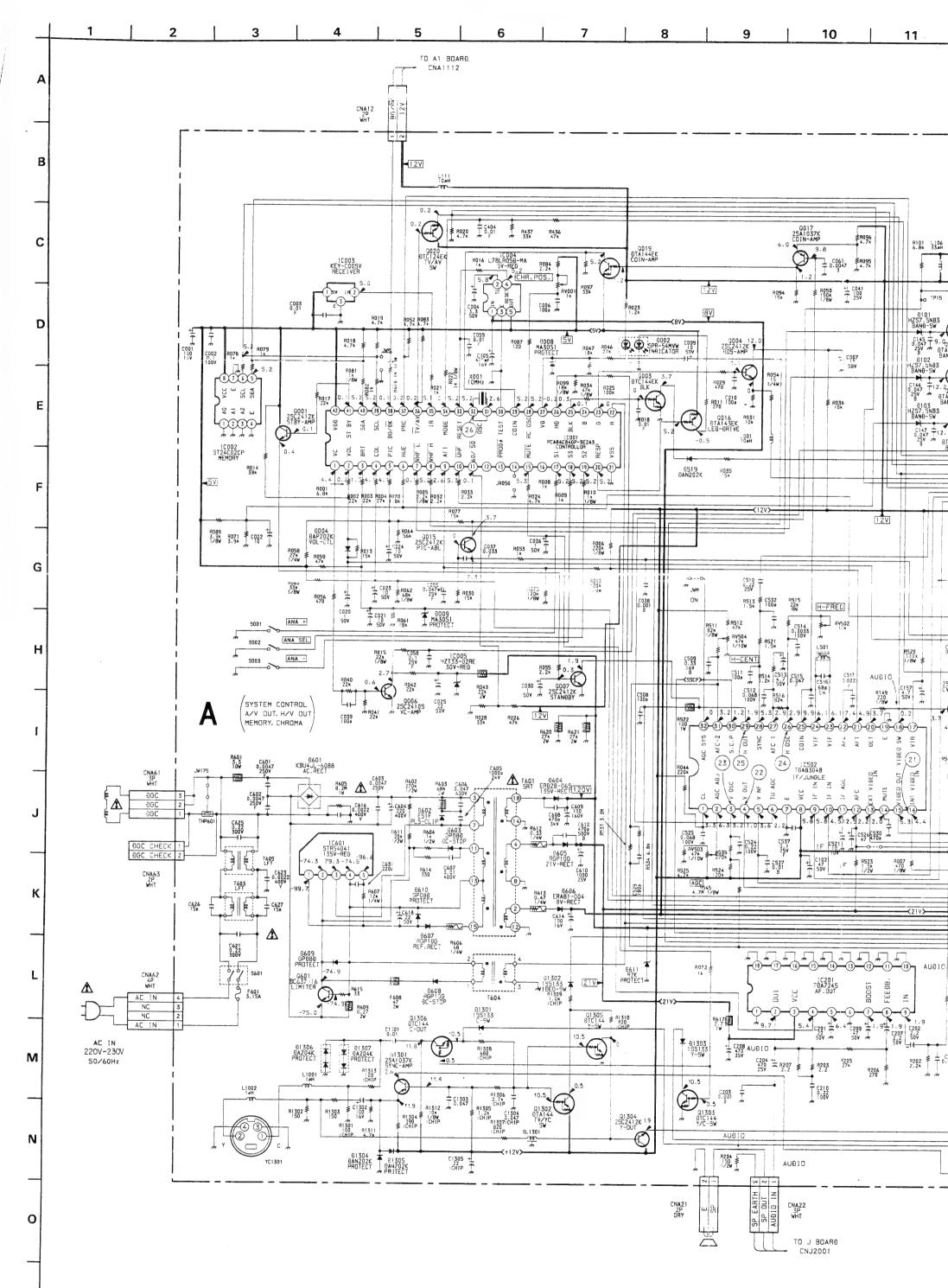
#### NOTE:

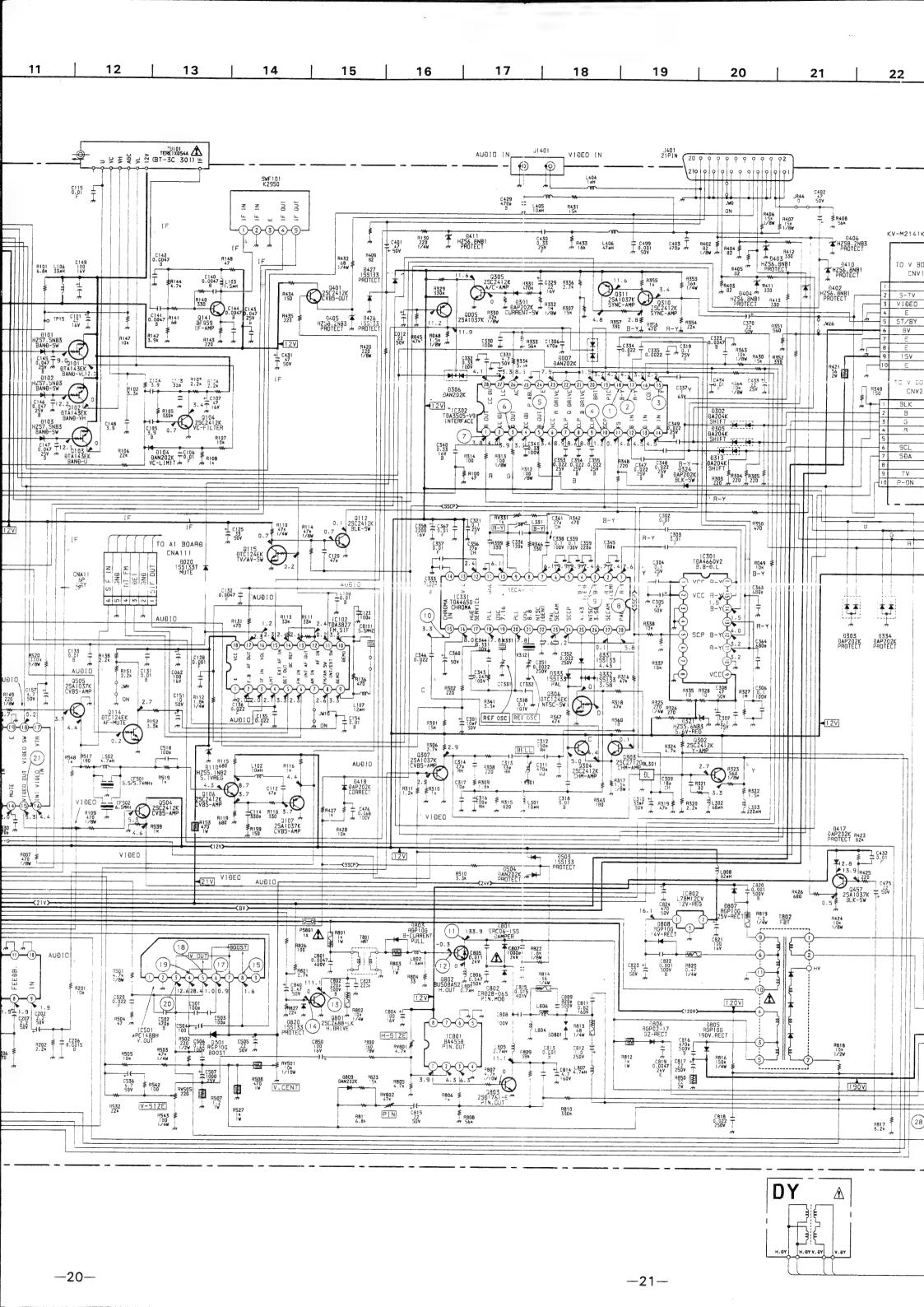
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

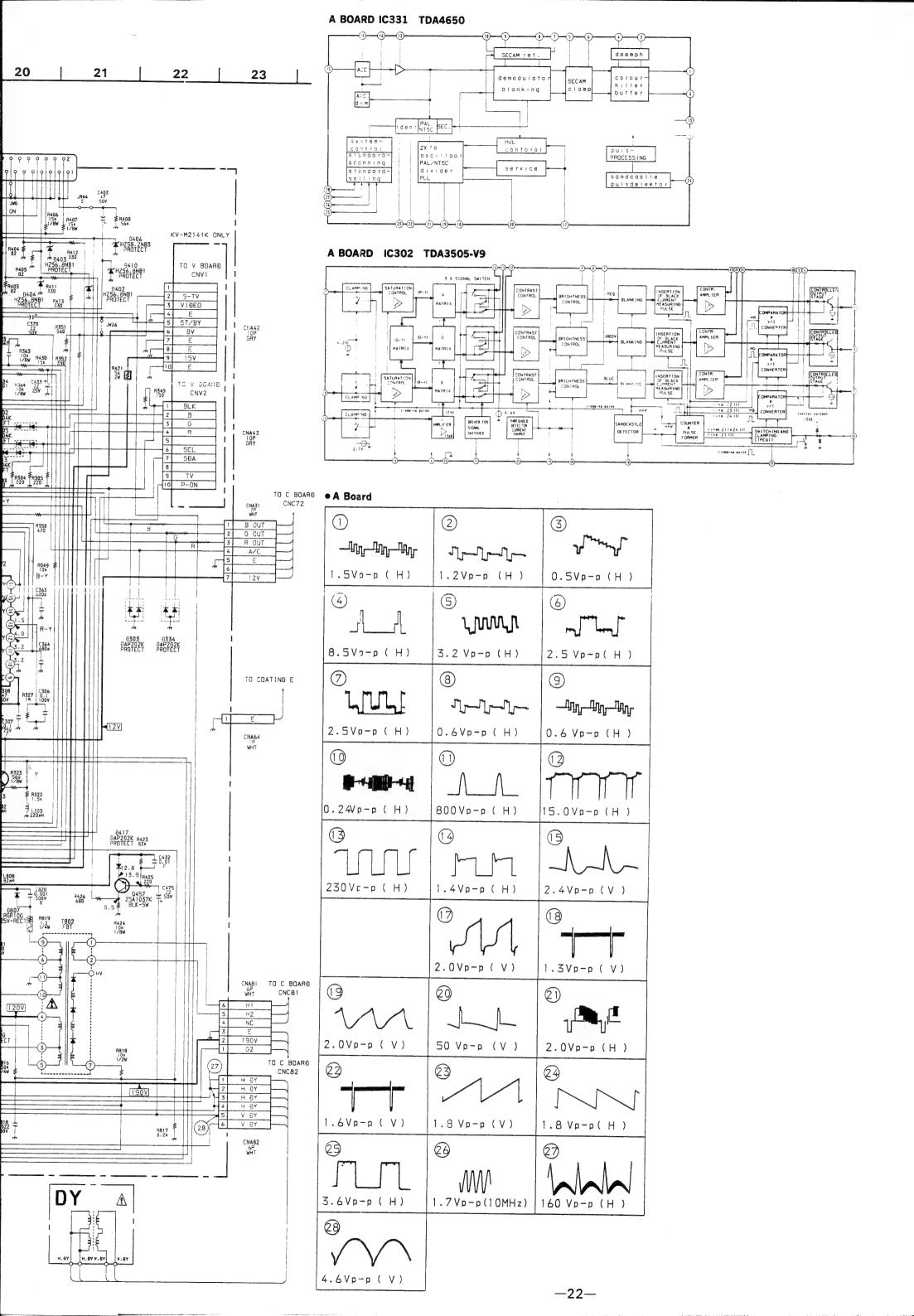
#### 5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

IC	Q307 B-6 Q310 A-3	9501 9-3 9503 E-4	COIL
1C001	Q311 A-3 Q401 B-2 Q457 0-1 Q501 B-4 Q502 B-3 Q503 B-3 Q504 C-3 Q505 B-3 Q601 G-5 Q801 G-5 Q801 G-4 Q802 H-3 Q803 F-3 Q1301 B-9 Q1302 B-10 Q1303 B-10 Q1304 A-10	9504 G-2 8511 B-3 9519 C-8 9601 F-7 9602 F-6 9603 F-5 9604 E-4 9605 E-6 9606 B-5 9606 H-5 9609 G-5 9611 F-4 9801 G-5 9801 G-5	LV301 C-7 L331 C-6
TRANSISTOR	01306 B-10	0805 G-1 0806 F-1 0807 F-3	
0001 8-8 0003 C-9 0004 8-10 0005 B-8 0006 C-8 0007 B-4 0015 0-3 0016 0-10 0017 E-9 0019 0-10 0020 0-8 0101 C-2 0102 C-1 0103 C-1 0104 C-1 0106 A-2 0107 A-2 0108 C-2 0109 B-1 0110 B-1 0111 B-1 0111 B-1 0111 B-1 0111 B-1 0111 B-5 0114 B-5 0115 A-6 0123 A-2 0140 C-2	DIODE  0002 E-10 0004 C-9 0006 B-3 0007 B-8 0008 B-10 0009 B-8 0000 C-1 0103 C-1 0103 C-1 0105 B-2 0110 C-5 0301 C-6 0302 A-2 0303 B-6 0302 A-2 0303 B-6 0302 A-2 0303 B-6 0404 B-1 0404 B-1 0404 B-1 0405 A-2 0406 C-1	DB08   E-3   DB09   D-1   DB20   F-4   DB20   F-4   DB20   F-4   DB20   DB20	
Q302 C-7 Q303 C-7 Q304 B-6 Q305 B-6	0410 A-1 0411 A-1 0417 0-1 0418 A-4	TRIMMER  CT331 C-7 CT332 C-7	

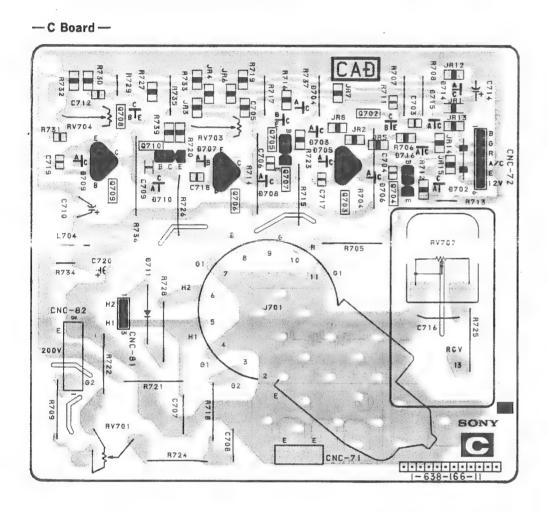


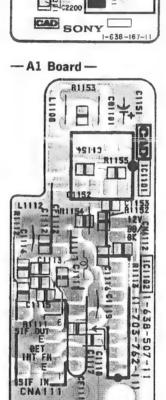








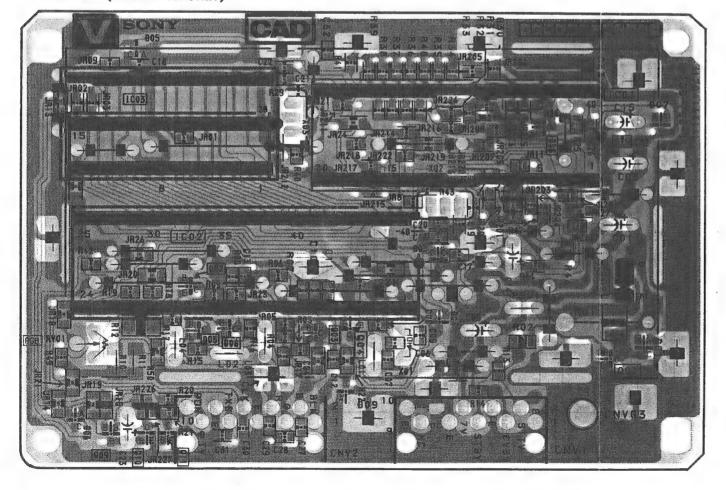


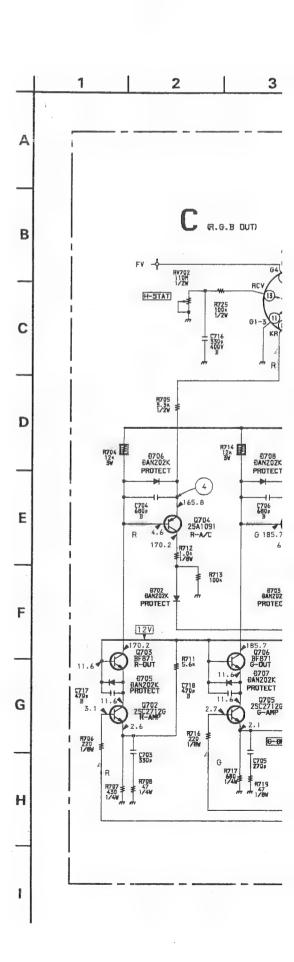


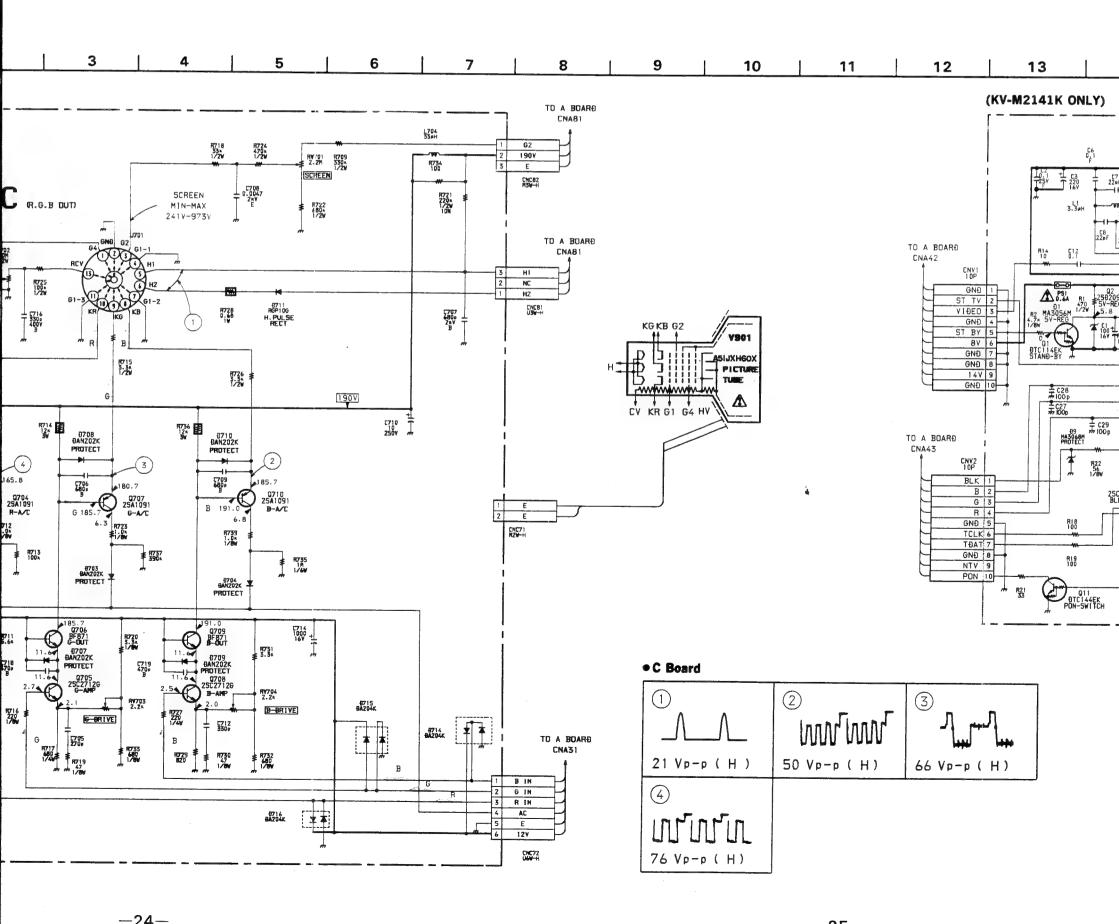
- J1 Board -

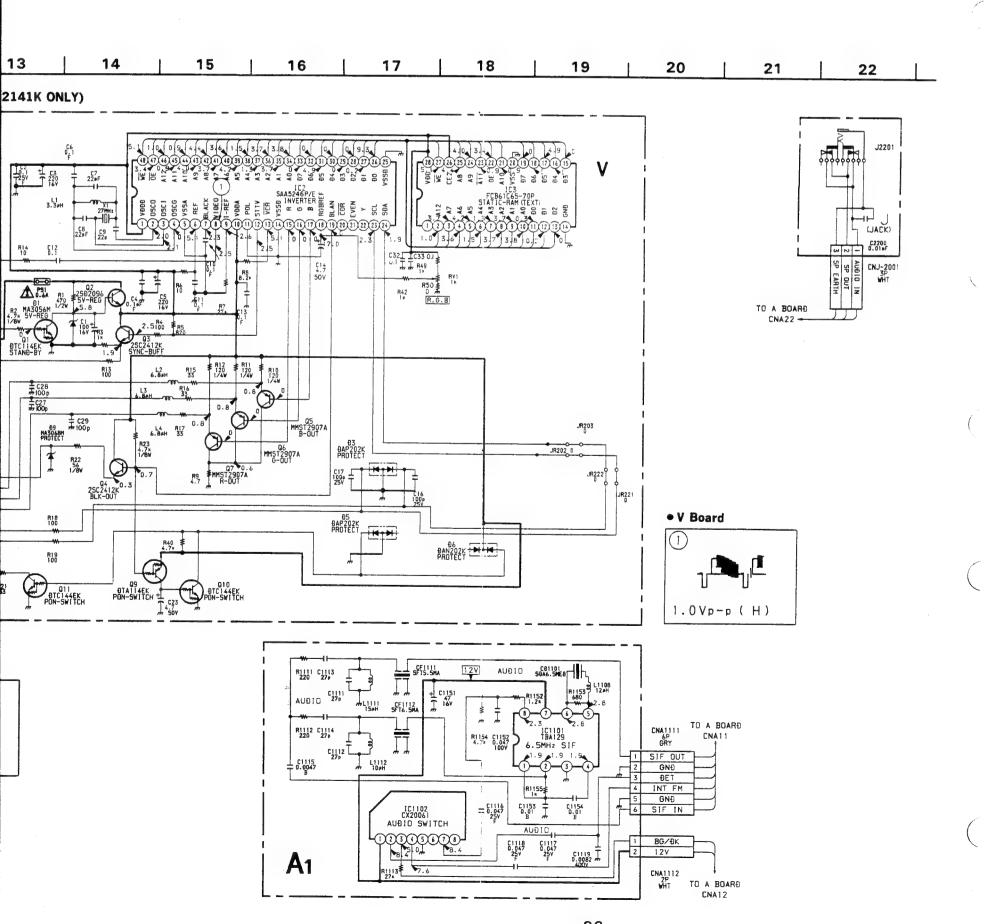
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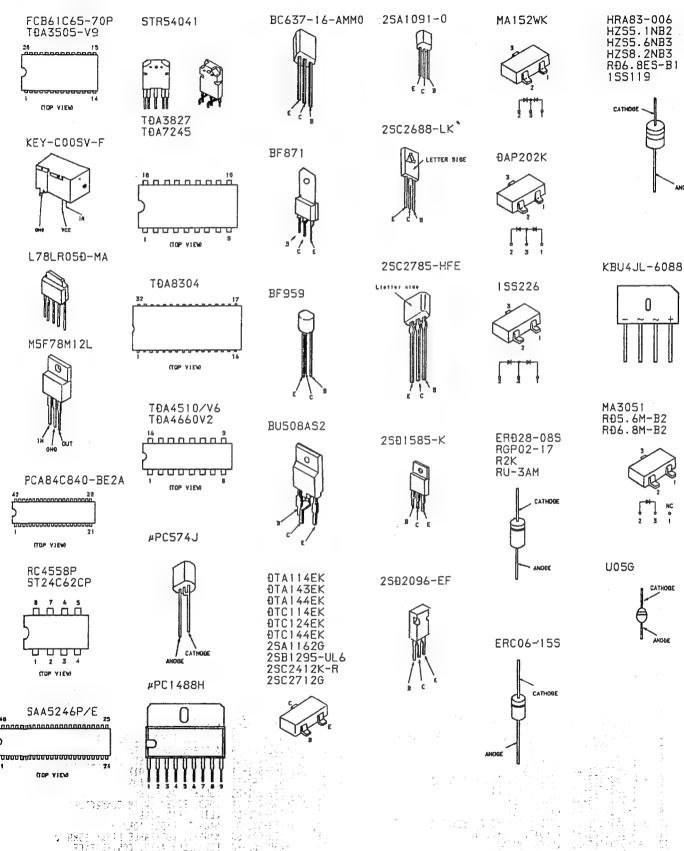








#### 5-3. SEMICONDUCTORS



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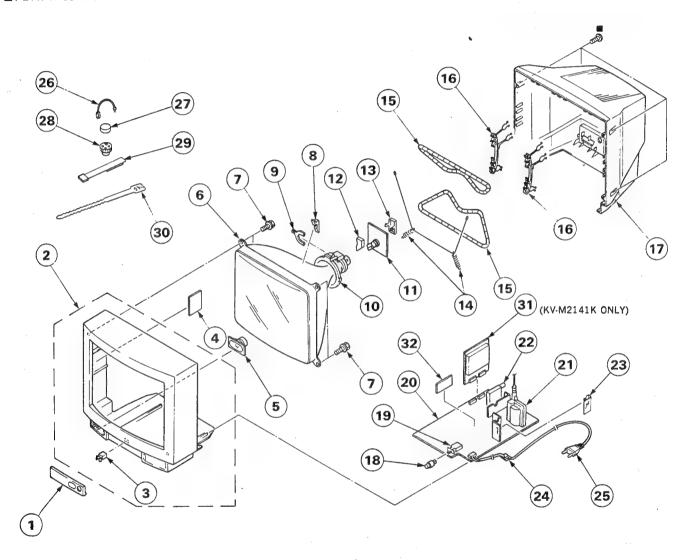
#### **SECTION 6 EXPLODED VIEW**

#### NOTE:

- · Items with no part number and no des-
- tems with no part number and no description are not stocked because they are seldom required for routine service.
   The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\hat{\Lambda}$  are critiine components identified by shading and mark A are critical for safety. Replace only with part number specified. 

#### ■: BVTP4×16 7-685-663-79



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
X-4200-081 2 X-4200-071 3 4-392-036-1 4 *1-638-167-1 5 1-503-258-1 6 A. 8-738-753-1 7 4-382-733-1 8 3-704-495-1 9 1-452-277-1 10 A. 1-451-295-1 1 A-1638-016 12 *4-379-167-1 13 *4-379-160-1 4 4-200-433-1	-1 CABINET ASSY (WITH I OI CATCHER, PUSH 11 JI BOARD 21 SPEAKER 05 PICTURE TUBE (A51JXI 01 SCREW (S), PT 01 SPACER, DY 00 MACNET, BMC 11 DEFLECTION YOKE (Y2: -A C BOARD, COMPLETE 01 COVER (MAIN), CV 01 COVER (REAR LID), CV 01 SPRING, EXTENSION 11 COIL; DEMAGNETIZATIO	ONLY) SEZEL ASSY) (BLACK) 3 SEZEL ASSY) (BLACK) 3	18 19 🗥 20 21 A 22 A 23	1-571-433-12 A-1632-056-A 1-439-416-51 1-465-541-11 9-910-999-33 4-389-201-02 1-590-460-11 4-308-870-00 1-452-032-00 1-452-094-00 X-4309-608-0 3-701-007-00	BUTTON, POWER  SWITCH, PUSH-(AC POW A BOARD, COMPLETE  TRANSFORMER ASSY, FL TUNER (BT 3C 801) PLATE, INSULATION HOLDER, AC CORD CORD, POWER (WITH CO CLIP, LEAD WIRE MAGNET, ROTATABLE DI PERMALLOY ASSY, CONV BAND, BINDING V BOARD, COMPLETE (MARCE)	NNECTOR)  ONNECTOR)  SK; 15MM  VERGENCE

#### **SECTION 7 ELECTRICAL PARTS LIST**

#### NOTE:

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS • MF : μF, PF : μμF COILS

• MMH : inH, UH : μH

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

RESISTORS

All resistors are in ohms
 F: nonflammable

REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO	. PART NO.	DESCRIPTION			REMARK
A-1630-060-A	A1 BOARD, COMPLETE				A-1632-056-A	A BOARD, COM			
	SOCKET, CONNECTOR 6P			r f 1 1 1 1	4-200-399-01 4-200-407-01 *4-341-751-01 *4-341-752-01	HOLDER, LED			
C1111 1-163-103-00 C1112 1-163-103-00	CERAMIC CHIP 27PF	5% 5%	50¥ 50¥		*4-368-683-01 *4-389-343-01	SPRING			
C1112 1-163-163-00 C1113 1-163-103-00 C1114 1-163-103-00 C1115 1-163-017-00	CERAMIC CHIP 27PF CERAMIC CHIP 27PF CERAMIC CHIP 0.0047MF	5% 5% 5% 5% 10%	50V 50V 50V			ACITOR>			
C1116 1-164-005-11 C1117 1-164-005-11 C1118 1-164-005-11 C1119 1-106-365-00 C1151 1-124-477-11	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF MYLAR 0.0082MF	10%	25V 25V 25V 400V 16V	C001 C002 C003 C004 C005	1-126-101-11 1-106-220-00 1-164-232-11 1-123-382-00 1-126-103-11	MYLAR CERAMIC CHIP		20% 10% 20% 20%	16V 100V 50V 50V 16V
C1154 1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	10% 10% 10%	100V 50V 50V	C006 C007 C009 C010 C012		CERAMIC CHIP ELECT ELECT CERAMIC CHIP ELECT	10MF 10MF	5% 20% 20% 5% 20%	50V 50V 50V 50V 50V
<fil< td=""><td>TER&gt; DISCRIMINATOR, CERAMIC</td><td></td><td></td><td>C018 C020</td><td>1-164-232-11 1-124-903-11</td><td>CERAMIC CHIP</td><td>0.01MF</td><td>20%</td><td>50V 50V</td></fil<>	TER> DISCRIMINATOR, CERAMIC			C018 C020	1-164-232-11 1-124-903-11	CERAMIC CHIP	0.01MF	20%	50V 50V
CF1111 1-527-840-00 CF1112 1-567-570-11	FILTER, CERAMIC			C021 C022 C023	1-124-907-11 1-124-907-11 1-124-907-11	ELECT	10MF 10MF 10MF	20% 20% 20%	50V 50V 50V
<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td>C024 C025</td><td>1-124-907-11 1-126-233-11</td><td>ELECT ELECT</td><td>10MF 22MF</td><td>20% 20%</td><td>50 V 50 V</td></con<>	NECTOR>			C024 C025	1-124-907-11 1-126-233-11	ELECT ELECT	10MF 22MF	20% 20%	50 V 50 V
CNA111*1-568-877-51	PIN, CONNECTOR 2P			C026 C030 C037	1-124-903-11 1-124-903-11	ELECT	1MF 1MF 0.033MF	20% 20%	50V 50V 50V
<1C> IC1101 8-759-003-90	IC TBA129		1 1 1	C038 C039	1-163-009-11 1-163-117-00	CERAMIC CHIP CERAMIC CHIP ELECT	0.001MF 100PF	10% 5% 20%	-50V 50V 25V
IC1102 8-752-006-12			9 1 1 1	C041 C055 C058	1-163-075-00	CERAMIC CHIP CERAMIC CHIP	100MF 0.047MF 0.1MF	10%	50V 25V
<001 L1108 1-408-410-00			! ! !	C059 C062	1-164-232-11 1-126-101-11	CERAMIC CHIP ELECT	0.01MF 100MF	20%	50V 16V
L1111 1-408-411-00 L1112 1-408-409-00	INDUCTOR 15UH		i 4 1 1 2 8	C063 C101 C102	1-163-017-00 1-124-477-11 1-124-910-11	CERAMIC CHIP ELECT ELECT	0.0047MF 47MF 47MF	10% 20% 20%	50V 16V 50V
<res< td=""><td>ISTOR&gt;</td><td></td><td>1 1 1</td><td>C103 C104</td><td>1-163-105-00 1-164-665-11</td><td>CERAMIC CHIP CERAMIC CHIP</td><td>33PF 0.039MF</td><td>5% 10%</td><td>50 V 50 V</td></res<>	ISTOR>		1 1 1	C103 C104	1-163-105-00 1-164-665-11	CERAMIC CHIP CERAMIC CHIP	33PF 0.039MF	5% 10%	50 V 50 V
R1111 1-216-033-00 R1112 1-216-033-00 R1113 1-216-083-00	METAL GLAZE 220 5% METAL GLAZE 27K 5%	1/10W 1/10W 1/10W	; ; ; ;	C105 C106 C107	1-164-665-11 1-164-232-11 1-124-477-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.039MF	10% 20%	50V 50V 16V
R1152 1-216-057-00 R1153 1-216-045-00	METAL GLAZE 680 5%	1/10W 1/10W	, 1 1 2 1	C112 C114	1-163-109-00 1-163-129-00	CERAMIC CHIP	47PF 330PF	5% 5%	50V 50V 50V
R1154 1-216-065-00 R1155 1-216-049-00	METAL GLAZE 4.7K 5% METAL GLAZE 1K 5%	1/10W 1/10W		C115	1-164-232-11	CERAMIC CHIP	O.OIM		101

#### KV-M2140K/M2141K RM-694



REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
C120 C123 C125 C128 C131	1-163-009-11	CERAMIC CHIP 47PF CERAMIC CHIP 100PF ELECT 33MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.01MF			C340	1-162-568-11 1-130-783-00 1-106-383-00 1-130-783-00	CERAMIC CHIP O. MYLAR O.	.33MF 10% .047MF 10% .33MF 10%	100V 100V
C132 C133 C135 C136 C139	1-164-232-11 1-163-033-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.01MF	10%	50V 50V 50V 50V 50V	C346 C347 C348 C349 C351	1-163-033-00 1-163-037-11 1-163-037-11 1-163-037-11 1-106-375-12	CERAMIC CHIP O.  CERAMIC CHIP O.  CERAMIC CHIP O.  CERAMIC CHIP O.  MYLAR O.	022MF 10% 022MF 10% 022MF 10% 022MF 10%	50V 25V 25V 25V 25V 250V
C140 C141 C142 C143 C144	1-163-017-00	CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.0047MF	10% 10% 10% 10% 10%	50V 50V 50V 25V 50V	C352 C353 C354 C355 C355 C356	1-163-037-11 1-163-037-11 1-163-103-00	CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP 27	022MF 102 022MF 102 7PF 5%	25V 25V 25V 50V
C145 C146 C147 C148 C149	1-164-665-11 1-126-101-11	CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.039MF ELECT 100MF	10% 10% 10% 10% 20%	25V 25V 25V 50V 16V	C357 C358 C359 C360 C361	1-124-556-11 1-163-125-00	CERAMIC CHIP O.  ELECT 22 CERAMIC CHIP 22 ELECT 1M CERAMIC CHIP 27 CERAMIC CHIP 68	200MF 20% 20PF 5%	50V : 50V
C151 C154 C157 C201 C202	1-124-927-11 1-126-233-11 1-124-925-11	CERAMIC CHIP 0.01MF ELECT 4.7MF ELECT 22MF ELECT 2.2MF	20% 20% 20%	50V 50V 50V 50V	1 (370	1-163-137-00 1-164-232-11 1-126-233-11	CERAMIC CHIP 68 CERAMIC CHIP 0. ELECT 22 MYLAR 0.	80PF 5% 01MF 2MF 20%	50V 50V 50V 100V
C203 C204 C206 C207 C208	1-124-480-11 1-163-011-11 1-124-925-11 1-126-104-11	CERAMIC CHIP 0.001MF ELECT 470MF CERAMIC CHIP 0.0015MF ELECT 2.2MF ELECT 470MF	10% 20% 10% 20% 20%	50V 25V 50V 50V 35V	C403 C404 C429 C430	1-163-133-00 1-164-232-11 1-163-197-00 1-164-336-11	CERAMIC CHIP 47 CERAMIC CHIP 0. CERAMIC CHIP 47 CERAMIC CHIP 0.	70PF 5% 01MF 70PF 10% 33MF	50V 50V 50V 25V
C209 C210 C301 C302 C303	1-124-907-11	MYLAR 0.22MF ELECT 10MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF		50V 100V 50V 50V 50V	C432 C433 C434 C475	1-124-910-11 1-164-232-11 1-126-233-11 1-164-232-11 1-126-233-11	CERAMIC CHIP O. ELECT 22 CERAMIC CHIP O. ELECT 22	01MF 2MF 20% 01MF 2MF 20%	50 V 25 V 50 V 50 V
C304 C305 C306 C307 C308	1-106-220-00 1-163-038-00 1-124-910-11	CERAMIC CHIP O.1MF ELECT 47MF MYLAR O.1MF CERAMIC CHIP O.1MF ELECT 47MF	20% 10% 20%	25V 50V 100V 25V 50V	1 0502	1-163-005-11	ELECT 47 CERAMIC CHIP 0. CERAMIC CHIP 10 CERAMIC CHIP 47	OPF 10%	50V 50V 50V 50V
C309 C310 C311 C312 C313	1-163-099-00 1-124-917-11 1-163-133-00 1-163-121-00 1-163-105-00	CERAMIC CHIP 18PF ELECT 33MF CERAMIC CHIP 470PF CERAMIC CHIP 150PF CERAMIC CHIP 33PF	5% 20% 5% 5% 5%	50V 50V 50V 50V 50V	1	1-124-122-11 1-126-233-11	ELECT 22 MYLAR 0.	00MF 20% 2MF 20% 22MF 10% 000MF 20%	50V 100V 25V
C314 C315 C316 C317 C318	1-163-103-00 1-163-427-91 1-163-117-00 1-163-093-00 1-164-232-11	CERAMIC CHIP 27PF CERAMIC CHIP 68PF CERAMIC CHIP 100PF CERAMIC CHIP 10PF CERAMIC CHIP 0.01MF	5% 5% 5% 10%	50V 50V 50V 50V 50V	C508 C509 C510 C511 C512	1-163-117-00 1-162-568-11 1-163-081-00 1-163-117-00 1-106-216-00	CERAMIC CHIP 10 CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 10 MYLAR 0.	33MF 10% 22MF 00PF 5% 068MF 10%	25V 50V 100V
C319 C321 C323 C329 C330	1-163-038-00 1-163-038-00 1-163-055-00 1-131-367-00 1-163-117-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0047MF TANTALUM 22MF CERAMIC CHIP 100PF	10% 10% 5%	25V 25V 50V 16V 50V	C513 C514 C515 C516 C517	1-163-033-00	FILM O. CERAMIC CHIP O. CERAMIC CHIP 68 CERAMIC CHIP O.	3PF 5% 022MF	100V 50V 50V 50V
C331 C332 C333 C334 C335	1-124-927-11 1-130-783-00 1-163-037-11 1-163-063-00 1-163-063-00	ELECT 4.7MF MYLAR 0.33MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF	20% 10% 10% 10% 10%	50V 100V 25V 50V 50V	C518 C520 C521 C524 C525	1-163-117-00 1-163-033-00 1-131-377-00 1-106-228-00 1-106-216-00	CERAMIC CHIP 10 CERAMIC CHIP 0. TANTALUM 10 MYLAR 0.	00PF 5%	100V 100V
C336 C337 C338 C339	1-163-119-00 1-130-834-00 1-106-220-00 1-106-220-00	CERAMIC CHIP 120PF MYLAR 1MF MYLAR 0.1MF MYLAR 0.1MF	5% 10% 10% 10%	50V 63V 100V 100V	C526 C527 C529	1-124-910-11 1-164-232-11 1-163-117-00	CERAMIC CHIP 0.	01MF 202 01MF 102 00PF 5%	50V 50V 50V

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Replace only with part number specified.

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REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	CERAMIC CHIP 470PF CERAMIC CHIP 100PF ELECT 4.7MF CERAMIC CHIP 0.1MF	5% 5% 20% 5% 1/10%	50V 50V 50V 25V	CNA11 CNA12 CNA21	<pre><com *1-506-947-11 *1-568-877-51 *1-560-290-00</com </pre>	NNECTOR> PIN, CONNECTOR 6P PIN, CONNECTOR 2P PLUG, CONNECTOR (2.5MM PITCH) PIN, CONNECTOR 3P	
C602 A 1-161-964-61 C603 1-162-599-12	CERANIC 0.0047M ELECT(BLOCK) 220MF	F IF 20%	250V 250V 250V 400V 2KV	CNA43 CNA61 CNA62 CNA63	*1-565-394-11 *1-565-394-11 *1-508-765-00 *1-580-844-11 *1-508-786-00	PIN, BOARD TO BOARD CONNECTOR  PIN, BOARD TO BOARD CONNECTOR  PIN, CONNECTOR (5MM PITCH) 3P  PIN, CONNECTOR (FOWER)  PIN, CONNECTOR (5MM PITCH) 2P	
C606 1-136-637-11 C607 1-106-367-00 C608 1-161-753-00 C609 1-124-347-00 C610 1-124-557-11	MYLAR 0.01MF CERAMIC 470PF ELECT 100MF	10% 10% 10% 20% 20%	630V 400V 3KV 160V 25V	CNAS1	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 1P PIN, CONNECTOR (5MM PITCH) 6P PLUG (MINIATURE DY) 6P	
C612 1-102-228-00	CERAMIC 470PF	10%	500V	1	<tri< td=""><td>MMER&gt;</td><td></td></tri<>	MMER>	
C614 1-126-101-11 C616 A 1-164-246-11 C618 1-126-233-11 C621 A 1-136-517-11	ELECT 100MF CERAMIC 0.0022M ELECT 22MF	F 20% 20% 20% 20%	16V 400V 50V 300V		1-141-418-11 1-141-418-11	CAP, ADJ	
C623 A. 1-164-246-11	CERAMIC 0.0022M	F 20%	400V	i	<010	DE>	
C627 A. 1-163-161-91 C631 1-163-125-00	CERAMIC CHIP 15PF CERAMIC CHIP 15PF CERAMIC CHIP 220PF	5% 5%	300V 50V 50V 50V	D002 D004 D007 D008 D009	8-719-914-44	DIODE SPR-54MVW DIODE DAP202K DIODE MA152WK DIODE MA3051	
C801 1-101-821-00 C802 1-102-244-00 C804 1-126-101-11 C805 1-136-080-11 C806 1-136-187-11	CERAMIC 230PF ELECT 100MF FILM 0.011MF	10%	500V 500V 16V 2KV 250V	D020 D101 D102 D103	8-719-911-19 8-719-110-03 8-719-110-03 8-719-110-03	DIODE 1SS119 DIODE RD7.5ES-B2 DIODE RD7.5ES-B2 DIODE RD7.5ES-B2	
C807 ▲ 1-161-731-51 C808 1-136-933-11 C809 1-102-212-00 C811 1-136-540-11 C812 1-124-634-11	FILM 1MF CERAMIC 820PF FILM 0.82MF	10% 5% 10% 5% 20%	2KY 100V 500V 160V 250V	D104 D110 D301 D302	8-719-109-85 8-719-914-44 8-719-800-76	DIODE MA152WK DIODE RD5.1ES-B2 DIODE DAP202K DIODE 1SS226	
C813 1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	D303 D305	8-719-914-44 8-719-800-76	DIODE DAP202K DIODE 1SS226	
C814 1-126-542-11 C815 1-126-233-11 C816 1-102-228-00 C817 1-123-948-00	ELECT 4.7MF ELECT 22MF CERAMIC 470PF ELECT 22MF	20% 20% 10% 20%	160V 50V 500V 250V	D321 D324	8-719-800-76 8-719-109-89 8-719-914-44	DIODE RD5.6ES-B2 DIODE DAP2O2K	
C818 1-106-375-12 C819 1-162-114-00	MYLAR 0.022MF CERAMIC 0.0047MI	10%	250V 2KV		8-719-911-19		
C820 1-162-318-11 C821 1-126-101-11 C822 1-162-318-11	CERAMIC 0.001MF CERAMIC 0.001MF	10% 20% 10%	500V 16V 500V	D333 - D334 D402	8-719-109-97	DIODE 1SS119	
	ELECT 470MF MYLAR 0.015MF ELECT 0.47MF	20% 10% 20% 20%	50V 400V 50V 16V	D404 D405 D406	8-719-109-97 8-719-110-09 8-719-110-09	DIODE RD6.8ES-B2 DIODE RD8.2ES-B3 DIODE RD8.2ES-B3 DIODE RD6.8ES-B2	
C1301 1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V			DIODE DAP202K	
C1304 1-163-809-11	ELECT 100MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF ELECT 22MF	207 107 107 207	16V 25V 25V 50V	D426 D427 D450	8-719-911-19 8-719-911-19 8-719-978-31	DIODE 1SS119 DIODE DTZ6.8-TT11	
C1306 1-163-005-11	CERAMIC CHIP 470PF	10%	507	D501	8-719-300-33	DIODE RU-3AM	
<pre>CD101 1-579-110-11 CF501 1-404-801-11</pre>	TER> DISCRIMINATOR, CERAMI TRAP, CERAMIC TRAP, CERAMIC (6.5MHZ TRAP, CERAMIC (6.5MHZ	IC		D504 D519 D601	8-719-400-18	DIODE 1SS119 DIODE MA152WK DIODE MA152WK DIODE MA152WK	
CF502 1-409-327-00 SWF101 1-409-327-00	TRAP, CERAMIC (6.5MHZ	() ···		D603	8-719-911-55	DIODE RGP02-17 DIODE U05G	* *



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REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK	
D604 D605 D606 D607 D608	8-719-928-08 8-719-300-33 8-719-980-78 8-719-300-33 8-719-300-33	DIODE ERD28-08S DIODE RU-3AM DIODE ERAS3-006 DIODE RU-3AM DIODE RU-3AM DIODE U05G DIODE U05G		i	1-408-410-00 1-410-872-21 1-408-409-00 1-408-419-00 1-408-425-00	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	12UH 10UH 10UH 68UH 220UH		
D609 D610 D611 D801 D802	8-719-911-55 8-719-911-55 8-719-312-40 8-719-945-80 8-719-928-08	DIODE U05G DIODE U05G DIODE R2K DIODE ERCO6-15S DIODE ERD28-08S		L331 L404 L405 L406 L501	1-403-423-00 1-404-554-11 1-408-397-00 1-408-409-00 1-408-417-00 1-404-493-00	COIL INDUCTOR INDUCTOR INDUCTOR	1UH 10UH 47UH		
D803 D805 D806 D807 D808	8-719-300-33 8-719-300-33 8-719-976-64 8-719-300-33 8-719-300-33	DIODE RU-3AM DIODE RU-3AM DIODE RGP02-17 DIODE RU-3AM DIODE RU-3AM		L502 L801 L802 L804	1-408-405-00 	INDUCTOR  COIL, CHOKE  COIL, AIR COR  COIL (WITH CO	RE)		
D809 D820 D1301 D1302 D1303	8-719-400-18 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE MAI52WK DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		L806 L807 L808 L1001	1-459-652-12 1-408-239-00 1-408-226-00 1-408-397-00 1-408-397-00	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	4.7MMH 82UH 1UH 1UH		
D1304 D1305 D1306 D1307	8-719-400-18	DIODE MA152WK DIODE MA152WK DIODE 1SS226 DIODE 1SS226		1 1 1 2 0 1	<var< td=""><td>IABLE COIL&gt;</td><td></td><td></td><td></td></var<>	IABLE COIL>			
	<del< td=""><td>AY LINE&gt;</td><td></td><td>1 1 1 1 1</td><td></td><td></td><td></td><td></td><td></td></del<>	AY LINE>		1 1 1 1 1					
DL301 DL1301	1-236-062-11 1-415-613-11	MODULE, Y DELAY LINE DELAY LINE, Y		PS801 <u>A</u>	<10    - 1-532-637-91	LINK> LINK, IC 1A	Twis Lifus:	Datable (1111)	
	<fus< td=""><td>E&gt;</td><td></td><td>   </td><td><tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<></td></fus<>	E>		 	<tra< td=""><td>NSISTOR&gt;</td><td></td><td></td><td></td></tra<>	NSISTOR>			
F601 <u>A</u>	1-576-016-11 1-533-230-11 4-201-057-01	FUSE, GLASS-TUBE (TIME-LAG) 3.15A HOLDER, FUSE; F601 COVER, FUSE; F601	/250V	Q001 Q003 Q004 Q005 Q006	8-729-901-01 8-729-920-74 8-729-923-54	TRANSISTOR 2SI TRANSISTOR DTO TRANSISTOR 2SI TRANSISTOR DTO TRANSISTOR 2SI	C144EK C2412K-QR A143TK		
	<10>			I I					
1C002 1C003 1C004	8-759-988-32 8-749-922-13 8-759-805-37	1C PCA84C840P-BE2A3 1C ST24C02CP 1C KEY-COOSV-F 1C L78LR05D-MA 1C UPC574J		Q007 Q015 Q016 Q017 Q019	8-729-920-74 8-729-901-47 8-729-216-22	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR DTA TRANSISTOR DTA	C2412K-QR A143EK A1162-G		
IC102 IC201 IC301		IC TDA3827-V3 IC TDA7245 IC TDA4660V2		Q020 Q101 Q102 Q103 Q104	8-729-901-47 8-729-901-47 8-729-901-47	TRANSISTOR DTO TRANSISTOR DTA TRANSISTOR DTA TRANSISTOR DTA TRANSISTOR 250	1143EK 1143EK 1143EK		
IC501 IC502 IC601 IC801	8-759-113-05	IC TDA45505-VI IC TDA4650/V4 IC UPC1488H IC TDA8304 IC STR54041 IC RC4558P IC M5F78M12L	-	Q106 Q107 Q112 Q114 Q115	8-729-216-22 8-729-920-74 8-729-901-00	TRANSISTOR 2SG TRANSISTOR 2SG TRANSISTOR 2SG TRANSISTOR DTG TRANSISTOR DTG	A1162-G C2412K-QR C124EK		
10002	<jaci< td=""><td>K&gt;</td><td></td><td>Q141 Q302 Q303 Q304</td><td>8-729-920-74 8-729-230-49</td><td>TRANSISTOR BF9 TRANSISTOR 250 TRANSISTOR 250 TRANSISTOR 250</td><td>2412K-QR 2712-YG</td><td></td><td></td></jaci<>	K>		Q141 Q302 Q303 Q304	8-729-920-74 8-729-230-49	TRANSISTOR BF9 TRANSISTOR 250 TRANSISTOR 250 TRANSISTOR 250	2412K-QR 2712-YG		
J401 J1401	1-561-534-00 1-563-500-11	SOCKET 21P JACK BLOCK, PIN (L TYPE) 2P		Q305	8-729-920-74	TRANSISTOR 2SO	2412K-QR		
L001	<coii< td=""><td>L&gt; INDUCTOR 10UH</td><td></td><td>Q306 Q307 Q310 Q311 Q401</td><td>8-729-216-22 8-729-920-74 8-729-216-22</td><td>TRANSISTOR DTC TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SO</td><td>11162-G 22412K-QR 11162-G</td><td></td><td></td></coii<>	L> INDUCTOR 10UH		Q306 Q307 Q310 Q311 Q401	8-729-216-22 8-729-920-74 8-729-216-22	TRANSISTOR DTC TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SO	11162-G 22412K-QR 11162-G		
L102 L103 L106	1-408-399-00	INDUCTOR 10UH INDUCTOR 1.5UH INDUCTOR 33UH		Q457 Q504		TRANSISTOR 2SA TRANSISTOR 2SC			

#### KV-M2140K/M2141K RM-694

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
Q505 Q601 Q801 Q802 Q803	8-729-216-22 8-729-906-74 8-729-119-80 8-729-925-64 8-729-202-03	TRANSISTOR 25 TRANSISTOR BO TRANSISTOR 25 TRANSISTOR BO TRANSISTOR 25	5A1162-G 5637-16 5C2688-L J508AS2 5D1408-Y	K		JR126 JR127 JR128 JR129 JR130	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W	
Q1301 Q1302 Q1303 Q1304 Q1305	8-729-216-22 8-729-906-74 8-729-119-80 8-729-925-64 8-729-202-03 8-729-216-22 8-729-901-06 8-729-901-01 8-729-920-74 8-729-901-01	TRANSISTOR 2S TRANSISTOR DT TRANSISTOR DT TRANSISTOR 2S TRANSISTOR DT	SA1162-G TA144EK TC144EK GC2412K- TC144EK	QR		JR131 JR133 JR134 JR135 JR136	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W	
	8-729-901-01	TRANSISTOR DI				JR137 JR139 JR144	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/8W 1/8W	
10.44		SISTOR>	0	5% 1/10W		JR146 JR147	1-216-296-00 1-216-296-00	METAL GLAZE	0	5% 5% 5%	1/8W 1/8W	
JR99 JR003 JR004 JR005	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		JR149 JR150 JR151	1-216-296-00 1-216-296-00 1-216-296-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5%	1/8W 1/8W 1/8W 1/10W 1/8W	
JR009 JR010 JR011	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE	0	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		JR152 JR152 JR153 JR155 JR181	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	1/10W 1/8W 1/8W 1/8W 1/8W	
JRO17 JRO18	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE	0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W		JR182 JR183 JR184	1-216-296-00 1-216-296-00 1-216-296-00 1-216-295-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0 0 6.8K	5% 5%	1/8W 1/8W 1/8W 1/10W 1/10W	
JRO26 JRO27 JRO28	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE		1/10W 1/10W 1/10W 1/10W 1/10W 1/10W		R002 R003 R004 R005 R006	1-216-081-00 1-216-081-00 1-216-083-00 1-216-206-00 1-216-254-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 27K 2.2K 2.2K 220K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/8W 1/8W	
JRO34 JRO36 JRO37	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			R007 R008 R009 R010 R011	1-216-190-00 1-216-049-00 1-216-049-00 1-216-198-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1K 1K 1K 270	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/8W 1/10W	
JRO45	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5 5 0 5 5 0	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W		R013	1-216-248-00 1-216-077-00 1-216-748-11 1-216-230-00 1-216-049-00	MFTAL GLAZE	120K 15K 39K 22K 1K	57	1/8W 1/10W 1/10W 1/8W 1/10W	
JR060 JR101 JR102 JR103 JR104	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5 0 5 0 5 0 5	7 1/10W 7 1/8W 7 1/8W 7 1/8W 7 1/8W	**	R017 R018 R019 R020 R021	1-216-081-00 1-216-065-00 1-216-065-00 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
JR105 JR106 JR107 JR108 JR109	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5 0 5 0 5 0 5 0 5	7 1/8W 7 1/8W 7 1/8W 7 1/8W 7 1/8W		R022 R023 R024 R025 R026	1-216-198-00 1-216-051-00 1-216-065-00 1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	
	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5 0 5 0 5 0 5	% 1/8W % 1/8W % 1/8W		R028 R029 R030 R031	1-216-085-00 1-216-041-00 1-216-077-00 1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	15K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5 0 5 0 5 0 5	% 1/8W % 1/8W		R034	1-216-057-00 1-216-238-00 1-216-077-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 47K 15K	5% 5% 5%	1/10W 1/8W 1/10W	



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	REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
		1-216-073-00 1-216-081-00 1-216-081-00 1-216-081-00 1-215-900-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	10K 22K 22K 22K 22K	5% 5%	1/10W 1/10W 1/10W 1/10W 2W		R136 R138	1-216-041-00 1-216-057-00 1-216-295-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 470 2.2K 0 330	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R044 R045 R046 R047 R048	1-216-105-00 1-216-089-00 1-216-081-00 1-216-079-00 1-216-202-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220K 47K 22K 18K 1.5K		1/10W 1/10W 1/10W 1/10W 1/8W		R141 R142 R143 R144 R147	1-216-021-00 1-216-063-00 1-216-033-00 1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 220 4.7K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R049 R050 R052 R053 R054	1-216-073-00 1-216-250-00 1-216-065-00 1-216-049-00 1-249-395-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	10K 150K 4.7K 1K 15		1/10W 1/8W 1/10W 1/10W 1/4W		R148 R149 R151 R152 R153	1-216-017-00 1-216-182-00 1-216-057-00 1-216-061-00 1-215-867-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	470	5 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/8W 1/10W 1/10W 1W	
	R055 R056 R058 R059 R060	1-216-057-00 1-216-041-00 1-249-434-11 1-216-089-00 1-216-234-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE	2.2K 470 27K 47K 33K		1/10W 1/10W 1/4W 1/10W 1/SW		R199 R201 R202 R203 R204	1-216-073-00 1-216-057-00 1-216-298-00 1-247-741-11	METAL GLAZE METAL GLAZE CARBON	150 10K 2.2K 2.2 150		1/10W 1/10W 1/10W 1/10W 1/2W	
	RO61 RO62 RO64 RO70 RO71	1-216-079-00 1-216-242-00 1-216-091-00 1-216-055-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 68K 56K 1.8K 3.9K	5% 5% 5% 5%	1/10W 1/SW 1/10W 1/10W 1/10W		R205 R206 R207 R301 R302	1-216-083-00 1-216-035-00 1-216-298-00	METAL GLAZE	27K 270 2.2 15K 220	5 % % % % % % % % % % % % % % % % % % %	1/10W 1/10W 1/10W 1/10W 1/10W	
	R072 R075 R076 R077 R078	1-216-049-00 1-216-248-00 1-216-198-00 1-216-077-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 120K 1K 15K 1K	5% 5% 5%	1/10W 1/8W 1/8W 1/10W 1/10W		R303 R304 R305	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 2.7K 15K 220		1/10W 1/10W 1/10W 1/10W 1/10W	
	R079 R081 R082 R083 R084	1-216-049-00 1-216-198-00 1-216-049-00 1-216-065-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 4.7K 2.2K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W		R308	1-216-033-00 1-216-055-00 1-216-049-00 1-216-051-00 1-216-174-00	METAL GLAZE	220 1.8K 1K 1.2K 100		1/10W 1/10W 1/10W 1/10W 1/8W	
	R086 R087 R089 R094 R095	1-216-065-00 1-216-027-00 1-216-212-00 1-216-077-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 120 3.9K 15K 4.7K	5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W		R313 R314 R315	1-216-174-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 5% 5% 5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W	
	R096 R097 R099 R100 R101	1-216-065-00 1-216-085-00 1-216-228-00 1-216-017-00 1-216-069-00	METAL GLAZE	4.7K 33K 18K 47 6.8K	5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W		R318 R319 R320 R321 R321 R322	1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K		1/10W 1/10W 1/10W 1/10W 1/10W	
	R102 R103 R104 R105 R106	1-216-061-00 1-216-057-00 1-216-057-00 1-216-109-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 2.2K 2.2K 330K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R324 R325 R326 R327	1-216-192-00 1-216-065-00 1-249-410-11 1-216-035-00 1-216-121-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	560 4.7K 270 270 1M	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/8W 1/10W 1/4W 1/10W 1/10W	
	R107 R108 R109 R110 R111	1-216-073-00 1-216-049-00 1-216-190-00 1-249-437-11 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE CARBON METAL GLAZE	10K 1K 470 47K 33K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/4W 1/10W		R328 R329 R330 R331 R332	1-216-001-00 1-216-109-00 1-216-244-00 1-216-113-00 1-216-270-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330K 82K 470K 1M	5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/8W	
	R112 R113 R114 R115 R116	1-249-420-11 1-216-085-00 1-216-238-00 1-216-045-00 1-216-049-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 33K 47K 680 1K	5% 5% 5% 5%	1/4W 1/10W 1/8W 1/10W 1/10W		R333 R334 R335 R336 R337	1-216-091-00 1-216-091-00 1-216-001-00 1-216-059-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	56K 5.6K 10 2.7K 10K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	R118 R119 R130 R131	1-216-037-00 1-216-045-00 1-249-409-11 1-216-041-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	330 680 220 470	5% 5% 5%	1/10W 1/10W 1/4W 1/10W		R338	1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 3.3K	5% 5% 5%	1/10W 1/10W 1/10W	

RM-694

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

spec	cified.												L	
11/2/2017/2017/2017	PART NO.					REMARK	REF. NO	. PART NO.	DESCRIPTION				REMARK	
R343 R346	1-216-031-00 1-216-037-00	METAL GLAZE	180 330	5%	1/10W 1/10W		R523	1-247-754-11		1.5K		1/2W		
R347 R348 R349	1-216-089-00 1-216-033-00 1-216-029-00	METAL GLAZE	47K 220 150	5% 5% 5%	1/10W 1/10W 1/10W		R524 R525 R527 R532	1-216-081-00	METAL OXIDE METAL GLAZE	120K 4.7K 1K 22K	5% 5%	1/10W 1/10W 1W 1/10W		
R350 R351 R352	1-216-041-00 1-216-043-00 1-216-039-00	METAL GLAZE METAL GLAZE	470 560 390	5%	1/10W 1/10W 1/10W		R533 R534 R535	1-216-133-00 1-216-069-00	METAL GLAZE	3.3M		1/10W		
R353 R354 R355	1-249-438-11 1-216-081-00 1-216-049-00	METAL GLAZE	56K 22K 1K	5% 5% 5%	1/4W 1/10W 1/10W		R535 R539 R542 R543	1-216-107-00 1-216-049-00 1-216-025-00 1-249-408-11	METAL GLAZE METAL GLAZE	6.8K 270K 1K 100 180	5% 5% 5%	1/10W 1/10W 1/10W 1/4W		
R356 R357 R360	1-216-041-00 1-216-039-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 390 10	5% 5% 5% 5% 5%	1/10W 1/10W		R545 R548	1-216-286-00 1-216-049-00	METAL GLAZE METAL GLAZE	4.7M	5% 5%	1/8W 1/10W	r	
R363 R364 R399	1-216-222-00 1-216-222-00 1-216-037-00	METAL GLAZE	10K 10K 330		1/8W 1/8W 1/10W		R602 R603	A. 1-205-909-11 1-214-923-00 1-215-903-11	CARBON	3.3 270K 68K	5%	10W 1/2W 2W	r	
R402	1-216-172-00 1-216-023-00 1-216-023-00	METAL GLAZE METAL GLAZE	82 82 82	5%	1/8W 1/10W 1/10W		R604 R605 A R606 R607	1-247-752-11 1-218-265-91 1-212-877-11 1-249-430-11	FUSIBLE	1K 8.2M 68 12K	5% 5% 5% 5%	1/2W 1W 1/4W 1/4W		
R407	1-216-023-00 1-216-226-00 1-216-226-00	METAL GLAZE METAL GLAZE	82 15K 15K	5% 5%	1/10W 1/8W 1/8W		R608	1-215-884-11	METAL OXIDE WIREWOUND	47 0, 27	10%	2W 2W		
R409	1-216-091-00 1-216-023-00	METAL GLAZE	56K 82	5% 5%	1/10W 1/10W		R611 R612 R613	1-214-915-00 1-219-137-11 1-217-811-11	FUSIBLE FUSIBLE	120K 0.33 0.47 330	5%	1/2W 1/4W 1/4W		
R413	1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 330 330 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W		R614 R615 R617	1-216-037-00 1-216-013-00 1-216-354-11	METAL GLAZE METAL OXIDE	33 2.7			F	
R421 R423	1-216-449-11 1-216-095-00	METAL OXIDE	56 82K	5%	2W 1/10W		R620 R621 R801	1-216-465-11	METAL OXIDE	27K 27K 1K	5% 5% 5% 5% 5%	2W 2W 1W	F	
R425 R426	1-216-222-00 1-216-033-00 1-216-045-00 1-216-049-00	METAL GLAZE METAL GLAZE	10K 220 680 1K	5%%%% 5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%	1/8W 1/10W 1/10W 1/10W		R802 R803 R804	1-217-819-51 1-216-352-11 1-216-013-00	FUSIBLE METAL OXIDE METAL GLAZE	2.7K 1.8 33 4.7K	5% 5% 5%	1/4W 1W 1/10W	F	
R430		METAL GLAZE METAL GLAZE	10K 15K	5% 5% 5%	1/10W 1/10W		R805 R806		METAL GLAZE	IK	5%	1/10W 1/10W		
R432		CARBON	15K 68 18K	5% 5% 5%	1/10W 1/4W 1/10W			1-216-091-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 56K 39K 330K 6.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		
R435 R436	1-216-029-00 1-216-033-00 1-216-089-00	METAL GLAZE METAL GLAZE	150 220 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W		R811 R812	1-216-069-00 1-215-869-11	METAL GLAZE METAL OXIDE	1 K		1/10W 1W	F	
R437 R501	1-216-085-00 1-216-214-00	METAL GLAZE METAL GLAZE	33K 4.7K	5% 5%	1/10W 1/8W		R813 R814 R816	1-212-877-11 1-215-868-00 1-247-883-00	FUSIBLE METAL OXIDE CARBON	68 680 150K	5% 5% 5% 5%	1/4W 1W 1/4W 1/10W	F	
R502 R503 R504 R505	1-247-743-11 1-249-437-11 1-216-017-00 1-216-073-00	CARBON CARBON METAL GLAZE METAL GLAZE	220 47K 47 10K	5% 5% 5% 5%	1/2W 1/4W 1/10W 1/10W		R817 R818 R819	1-216-071-00 1-202-830-00 1-249-448-11	METAL GLAZE SOLID CARBON	8.2K 10K 1.2	107	1/10W 1/2W 1/4W	F	
R507	1-216-350-11	METAL OXIDE	1.2 470	5% 5%	ÎW F		R820 R821 R822	1-217-811-11 1-216-059-00 1-216-204-00	FUSIBLE METAL GLAZE METAL GLAZE	0.47 2.7K 1.8K	5% 5% 5% 5%	1/4W 1/10W 1/8W		
R511 R512	1-216-061-00 1-216-244-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 82K 47K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W		R823 R826 R827	1-216-077-00 1-216-025-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 100 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W		
R514	1-216-053-00 1-216-051-00 1-216-683-11	METAL GLAZE METAL GLAZE METAL CHIP	1.5K 1.2K 22K	5%	1/10W 1/10W 1/10W	1	R830 R850	1-216-081-00 1-216-192-00 1-215-882-00	METAL GLAZE METAL OXIDE	560 22	5% 5%	1/8W 2W F	F	
R516 R517	1-216-095-00 1-216-031-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K 180 0	5% 5% 5%	1/10W 1/10W 1/10W	1	R1301 R1302 R1303 R1304	1-216-025-00 1-216-029-00 1-216-029-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 150 150 390	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		
R520	1-216-258-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 330K 1.5K	5% 5%	1/10W 1/8W 1/10W	9 9 8 8	R1305	1-216-200-00	METAL GLAZE METAL GLAZE	1.2K	5% 5%	1/8W 1/8W		
R522		METAL OXIDE	100	5%	10	1			METAL GLAZE	820	5%	1/10W		

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The components identified by shading and mark \( \begin{array}{c} \text{ are critical for safety.} \)
Replace only with part number specified.

REF.NO. PART NO.	DESCRIPTION	REMARK		D. PART NO.	DESCRIPTION			REMARK
R1308 1-216-045-00	METAL GLAZE 680 5%	1/10W	i ! !	· <ca< td=""><td>PACITOR&gt;</td><td></td><td></td><td></td></ca<>	PACITOR>			
R1309 1-216-049-00 R1310 1-216-047-00 R1311 1-216-065-00	METAL GLAZE \$20 5% METAL GLAZE 4.7K 5%	1/10W 1/10W 1/10W	C703 C704 C705	1-163-129-00 1-163-007-11	CERAMIC CHIP CERAMIC CHIP	330PF 680PF	5% 10%	50V 50V
R1312 1-216-222-00	METAL GLAZE TON 54			1 103 001 11	CERAMIC CHIP	270PF 680PF	5% 10% 10%	SAV
k1515 1-210-025-00	METAL GLAZE 100 3%	1/10W	C708	1-162-114-00	CERAMIC	680PF 0.0047MF	10%	2KV 2KV
<var< td=""><td>IABLE RESISTOR&gt;</td><td></td><td>C709</td><td>1-163-007-11 1-123-947-00</td><td>CERAMIC CHIP</td><td>10MF</td><td>10% 20%</td><td>50 V 250 V</td></var<>	IABLE RESISTOR>		C709	1-163-007-11 1-123-947-00	CERAMIC CHIP	10MF	10% 20%	50 V 250 V
RV001 1-238-012-11 RV331 1-238-012-11 RV501 1-238-016-11	RES. ADJ. CARBON 1K RES. ADJ. CARBON 1OK		C714	1-124-360-00	CERAMIC CHIP ELECT	1000MF	5% 20%	50V 16V
RV502 1-226-703-11 RV503 1-238-019-11	RES, ADJ, METAL GLAZE 10K RES, ADJ, CARBON 47K		C716 C717	1-162-622-11° 1-163-005-11	CERAMIC CHIP CERAMIC CHIP	330PF 470PF	10% 10% 10%	400V 50V 50V
RV504 1-238-019-11 RV505 1-238-009-11	METAL GLAZE 100 5%  HABLE RESISTOR>  RES. ADJ. CARBON 1K RES. ADJ. CARBON 1K RES. ADJ. CARBON 10K RES. ADJ. CARBON 47K  TCH>		C719	1-163-005-11	CERAMIC CHIP	470PF	10%	50 V
RV801 1-238-015-11 RV802 1-238-019-11	RES, ADJ, CARBON 4.7K RES, ADJ, CARBON 47K		 	<c01< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></c01<>	NECTOR>			
<sw1< td=""><td>TCH&gt;</td><td></td><td>CNC71 CNC72</td><td>*1-508-786-00 *1-568-881-51</td><td></td><td></td><td></td><td></td></sw1<>	TCH>		CNC71 CNC72	*1-508-786-00 *1-568-881-51				
2001 1 311 332 21	SWITCH, TACTIL SWITCH, TACTIL		CNC81 CNC82	*1-560-123-00 *1-508-765-00	PLUG, CONNECT PIN, CONNECTO	OR (2.5MM) OR (5MM PITO	3P CH) 3P	
S003 1-571-532-21	TCH> SWITCH, TACTIL SWITCH, TACTIL SWITCH, TACTIL SWITCH, TACTIL SWITCH, PUSH (AC POWER)  RK GAP> GAP, SPARK			<010	DE>			
<spa!< td=""><td>RK GAP&gt;</td><td></td><td>D702 D703</td><td></td><td>DIODE MA152WK DIODE MA152WK</td><td></td><td></td><td></td></spa!<>	RK GAP>		D702 D703		DIODE MA152WK DIODE MA152WK			
SG801 1-519-422-11	GAP, SPARK		D703 D704 D705	8-719-400-18 8-719-400-18	DIODE MA152WK DIODE MA152WK			
<tra< td=""><td>NSFORMER&gt;</td><td></td><td>D707</td><td>8-719-400-18 8-719-400-18</td><td>DIODE MA152WK DIODE MA152WK</td><td></td><td></td><td></td></tra<>	NSFORMER>		D707	8-719-400-18 8-719-400-18	DIODE MA152WK DIODE MA152WK			
T601 A. 1-449-275-12	S.R.T		D708 D709 D710	8-719-400-18	DIODE MA152WK DIODE MA152WK			
T604 A 1-424-078-11 T605 A 1-424-391-11	TRANSFORMER, TRIGGER PULSE TRANSFORMER, LINE FILTER		D711	8-719-300-33	DIODE RU-3AM			
T801 1-437-090-00	HDT TRANSFORMER ASSY, FLYBACK		D714 D715 D716	8-719-800-76 8-719-800-76 8-719-800-76	D10DE 1SS226			
		(0% 1050)				4 -		
	RMISTOR> THERMISTOR, POSITIVE		J701	<jac 1-526-990-11</jac 		RE TUBE		
-					**,			
<tune TU101A. 1-465-541-11</tune 		• • • •	L704	<co! 1-410-878-11</co! 		33UH	•	
<crys< td=""><td>ET AL N</td><td></td><td>† † †</td><td>∠TD A</td><td>NSISTOR&gt;</td><td></td><td>-</td><td></td></crys<>	ET AL N		† † †	∠TD A	NSISTOR>		-	
	VIBRATOR, CRYSTAL		Q702		TRANSISTOR 2S	C2712-YG		
X331 1-567-307-11	OSCILLATOR, CRYSTAL OSCILLATOR, CRYSTAL		Q703 Q704	8-729-906-70 8-729-200-17	TRANSISTOR BF	871 A1091-0		
<term< td=""><td>IINAL&gt;</td><td></td><td>Q705 Q706</td><td>8-729-230-49 8-729-906-70</td><td>TRANSISTOR 2S TRANSISTOR BF</td><td>871</td><td></td><td></td></term<>	IINAL>		Q705 Q706	8-729-230-49 8-729-906-70	TRANSISTOR 2S TRANSISTOR BF	871		
YC1301 1-565-666-12			Q707 Q708	8-729-230-49	TRANSISTOR 25	C2712-YG		
************	************	**********	Q709 Q710	8-729-200-17	TRANSISTOR BF			
A-1638-016-A	C BOARD, COMPLETE		 	<res< td=""><td>ISTOR&gt;</td><td></td><td></td><td></td></res<>	ISTOR>			
	COVER (REAR LID), CV COVER (MAIN), CV		JR1 JR2	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 5% 0 5%	1/S₩ 1/8₩	
			1		natine dende U JA I			

The components identified by shading and mark \( \Lambda \) are critical for safety. Replace only with part number specified.

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							Inch vo	D.D. WO	PCCCD I DELON			מרווח
REF.NO. PAR	T NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
JR3 1-2	16-296-00	METAL GLAZE	0	5%	1/8W		C5	1-124-120-11	ELECT	220MF	20%	167
JR6 1-2	216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5%	1/8W 1/8W 1/8W		C6	1-163-038-00 1-163-235-11	CERAMIC CHIP	0.1MF	5%	25V 50V
JR7 1-2 JR8 205 3	216-296-00 216-296-00	METAL GLAZE			1/8W		CS C9	1-163-235-11 1-163-235-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 22PF	5% 5%	50V 50V
JR12 1-2 JR13 1-2	16-296-00	METAL GLAZE METAL GLAZE	0 0 0 0	5% 5%					CERAMIC CHIP	U. IMF		25V
JR14 1-2	16-296-00 16-296-00	METAL GLAZE	0	5% 5% 5% 5%	1/8W 1/8W		C11 C12	1-163-038-00 1-163-038-00	CERAMIC CHIP	0.1MF 0.1MF		25V 25V
JR16 1-2	16-296-00	METAL GLAZE			1/8W		C13	1-163-038-00 1-124-927-11	ELECT	0.1MF 4.7MF	20% 5%	25V 50V
JR18 1-2	16-296-00 16-296-00	METAL GLAZE	0 0 12K	5% 5%	1/8W 1/8W 3W			1-163-117-00				50V 50V
R705 1-2	02-824-00	METAL OXIDE SOLID METAL GLAZE	3.3K 220	10% 5%	1/2W 1/8W	F	C23	1-163-117-00 1-124-927-11	ELECT	4.7MF	20%	50 <b>v</b>
	47-822-11	•	430		1/4W		1 { t 	<con< td=""><td>NECTOR&gt;</td><td></td><td></td><td></td></con<>	NECTOR>			
R708 1-2 R709 1-2	49-401-11	CARBON SOLID	47 330K	5% 10%	1 / 413		CNV1	*1-565-393-11 *1-565-393-11	CONNECTOR, BO	DARD TO BOAR	lD	
R711 1-2	16-067-00	METAL GLAZE METAL GLAZE	5.6K 1K	5% 5%	1/10W 1/8W		CNV2	*1-565-393-11	CONNECTOR, BO	JARD TO BOAR	łD	
R713 1-2	15-469-00	METAL	100K 12K	1%	1/4W	r	t 1 1 1	<010	DE>			
R715 1-2	02-824-00	METAL OXIDE SOLID	3.3K	10%	3W 1/2W 1/8W	F	D1 D3 D5	8-719-105-91 8-719-914-44	DIODE RD5.6M-	-B2		
R716 1-2 R717 1-2	49-415-11	METAL GLAZE CARBON	220 680	5% 5%	1/4W		D5 D6	8-719-914-44 8-719-400-18	DIODE DAP202N DIODE MA152W	(		
	02-814-11 16-166-00	SOLID METAL GLAZE	33K 47	10% 5%	1/2W 1/8W		D9	8-719-106-17	DIODE RD6.8M-	-B2		
R720 1-2	16-210-00 02-842-11	METAL GLAZE SOLID	3.3K	5% 5% 10%	1/8W 1/2W		i I I	<1C>				
R722 1-2	02-848-00	SOLID	680K	10%	1/2W		1C2	8-759-515-59	IC SAA5246P/H	700		
R724 1-2	16-198-00 02-846-00	SOLID	1K 470K	5% 10%	1/8W 1/2W		103	8-759-510-49	10 k(R01002F-	-70P		
R726 1-2	02-838-00 02-824-00 49-409-11	SOLID SOLID	100K 3.3K 220	10% 10% 5%	1/2W 1/2W 1/4W			<0011	L>			
		METAL OXIDE			1V 34	F	L1 L2 L3	1-408-403-00 1-408-407-00	INDUCTOR INDUCTOR	3.3UH 6.8UH 6.8UH		
R729 1-2	49-416-11	CARBON METAL GLAZE	820 47	5% 5%	1/4W 1/8W		L3 L4	1-408-407-00 1-408-407-00	INDUCTOR INDUCTOR	6.8UH 6.8UH		
R731 1-2	16-061-00	METAL GLAZE METAL GLAZE	3.3K 680	5% 5% 5% 5% 5% 5%	1/10W 1/8W			(10)				
R733 1-2	16-194-00	METAL GLAZE	680 100		1/8W		DC1 A	<ic> 1-532-679-91</ic>	TINE TO TO	D_N15\ 0 64	. 3530.5	alter
R735 1-2	49-405-11 15-493-00	METAL OXIDE	1M 12K	1% 5%	1/4W 1/4W 3W	F	<sup>∞</sup> L2T Ψ	, 1-954-019-91	LINK, IC. (ICI	1137 0.08		
R736 1-2 R737 1-2	15-483-00	METAL	390K	1%	1/4W	•		<tra< td=""><td>KSISTOR&gt;</td><td></td><td></td><td></td></tra<>	KSISTOR>			
R739 1-2	16-198-00	METAL GLAZE	1 K	5%	1/8₩		Q1 Q2	8-729-900-53 8-729-920-92	TRANSISTOR 25	D2096-EF		
	<var< td=""><td>TABLE RESISTOR</td><td>&gt;</td><td></td><td></td><td></td><td>Q3 Q4</td><td>8-729-120-28</td><td>TRANSISTOR 25 TRANSISTOR 25</td><td>C1623-L5L6</td><td></td><td></td></var<>	TABLE RESISTOR	>				Q3 Q4	8-729-120-28	TRANSISTOR 25 TRANSISTOR 25	C1623-L5L6		
RV701 1-2	30-641-11	RES, ADJ, MET	AL GLA	ZE 2.2	M		Q5		TRANSISTOR 2S			
RV703 1-2	37-749-11	RES, ADJ, MET. RES, ADJ, CAR RES, ADJ, CAR	BON 22	00	n		Q6 Q7 Q9	8-729-807-87 8-729-901-04	TRANSISTOR 25	B1295-UL6		
		*********			******	*******	Q10		TRANSISTOR DT	C144EK		
		V BOARD, COMPI										
		*********	****				1001		STOR>	0 54	1/10W	
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td></td><td>JRO1 JRO2 JRO3</td><td>1-216-295-00 1-216-295-00 1-216-295-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>0 5% 0 5% 0 5%</td><td>1/10W 1/10W 1/10W</td><td></td></cap<>	ACITOR>					JRO1 JRO2 JRO3	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5%	1/10W 1/10W 1/10W	
	26-101-11	ELECT CERAMIC CHIP	100MF			16V 25V	JROS JRO9	1-216-295-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5%	1/10W 1/10W	
C3 1-13	24-120-11	ELECT CERAMIC CHIP	220MF		20%	16V	JR11	1-216-295-00		0 5%	1/10W	
- 1 I	-5 -11 00						- *					

#### KV-M2140K/M2141K RM-694

V J1

The components identified by shading and mark A are critical for safety.
Replace only with part number specified.

							specified.
REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO. DESCRIPTION REMARK
JR12 JR13 JR14 JR15 JR16	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/8W 1/8W		<connector>  CN2001*1-568-878-51 PIN, CONNECTOR 3P</connector>
JR17 JR18 JR19 JR20 JR21	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/8W 1/8W		<jack> J2201 1-562-837-11 JACK</jack>
JR22 JR23 JR24 JR26 JR27	1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/10W		<coil> L2201 1-408-409-00 INDUCTOR 10UH</coil>
JR203 JR221	1-216-295-00 1-216-295-00	METAL GLAZE	0 0 0 0 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/2W		MISCELLANEOUS *************  Δ. 1-426-383-11 COIL, DEMAGNETIZATION Δ. 1-451-295-11 DEFLECTION YOKE (Y21PFA2) 1-452-032-00 MAGNET, DISK; 10MM φ 1-452-094-00 MAGNET, ROTATABLE DISK; 15MM φ
R2 R3 R4 R5 R6	1-216-214-00 1-216-049-00 1-216-025-00 1-216-047-00 1-216-001-00	METAL GLAZE METAL GLAZE	4.7K 1K 100 820 10	5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		1-452-277-00 MAGNET, BMC  1-503-258-21 SPEAKER  A. 1-590-460-11 CORD, POWER (WITH CONNECTOR)  V901 A. 8-738-753-05 PICTURE TUBE (A51JXH60X)
R7 R8 R9 R10 R11	1-216-083-00 1-216-071-00 1-216-308-00 1-218-325-11 1-218-325-11	METAL GLAZE	27K 8.2K 4.7 120 120	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/4W		ACCESSORIES AND PACKING MATERIALS
R12 R13 R14 R15 R16	1-216-001-00 1-216-013-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120 100 10 33 33	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W		PART NO. DESCRIPTION REMARK  4-200-610-61 MANUAL, INSTRUCTION (ENGLISH/GERMAN/ POLISH/RUSSIAN)  *4-200-680-01 INDIVIDUAL CARTON
R17 R18 R19 R21 R22		METAL GLAZE METAL GLAZE METAL GLAZE	33 100 100 33 56	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W		#4-200-681-01 CUSHION (UPPER) (ASSY) #4-200-684-01 CUSHION (LOWER) (ASSY) #4-380-340-01 BAG, PROTECTION
R23 R40 R42 R49	1-216-214-00 1-216-065-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	4.7K 4.7K 1K 1K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W		REMOTE COMMANDER  1-465-562-11 CONTROL UNIT, REMOTE (RM-694) 4-395-610-01 COVER, BATTERY (FOR RM-694)
DUI		IABLE RESISTOR				! ! ! !	
RV1		RES, ADJ, CAR	DUN IK			1	
X1		STAL> CRYSTAL VIBRA	TOR				
*****	: * * * * * * * * * * * * * * * * * * *	********	*****	*****	*******	******	
1	:1-638-167-11	J1 BOARD					
		ACITOR>				1	
C2200	1-164-232-11	CERAMIC CHIP	0.01MF		5	10V	